

09/914/64
USOO/28888

101703 007 28888

REC'D 12 DEC 2000

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证 明

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申 请 日： 1999 11 24

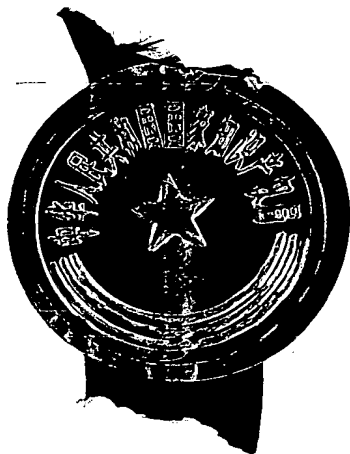
申 请 号： 99 1 24717.5

申 请 类 别： 发明专利

发明创造名称： 对虾白斑杆状病毒基因组 D N A 序列及 c D N A 序列

申 请 人： 国家海洋局第三海洋研究所；上海基康生物技术有限公司
； 北京诺赛基因组研究中心有限公司

发明人或设计人： 杨丰； 徐洵； 何俊； 叶昀； 何玫； 左琳； 沈岩



中华人民共和国
国家知识产权局局长

姜颖

2000 年 9 月 27 日

权利要求书

1. 一种对虾白斑杆状病毒基因组DNA全部序列, 共305,108 bp; 白斑杆状病毒的37个cDNA序列。
2. 根据权利要求1所述的对虾白斑杆状病毒基因组DNA全部序列, 其特征在于涵盖该病毒复制、增殖、感染所需的全部调控基因、结构蛋白基因和功能蛋白基因; 调控基因包含顺式元件和反式因子基因; 结构蛋白基因包括病毒外膜蛋白基因(含与宿主细胞相作用的各类蛋白基因)、核衣壳蛋白基因和非特异性DNA结合蛋白基因等; 功能蛋白基因包括各种酶基因, 以及修饰宿主功能的各种蛋白质基因。
3. 根据权利要求1所述的对虾白斑杆状病毒基因组DNA全部序列, 其特征在于白斑杆状病毒cDNA序列包括各种调控蛋白cDNA、结构蛋白cDNA和各种功能蛋白及其他多肽类的cDNA; 全部阅读框包括前导肽、信号肽等。
4. 根据权利要求1所述的对虾白斑杆状病毒基因组DNA全部序列, 其特征在于WSBV基因组 全序列:

WSBV总碱基对数: 305108 bp

碱基对组成: 92043A; 62482C; 62635G; 87948T

碱基百分比: 30% A; 20% C; 21% G; 29% T

环状双链DNA 分子量(kDa): 188071.6

1	GGATCCAGAC	ATCACCCCAA	CAATCGCAGA	CCCGATTACA	GTAGCAGAAG	TTGGAAACCC
61	TGTCGTGAGG	ATAAAACTC	CTTCATGTGA	TGAGTTGAAT	AAATTCATGA	GATTCTCTAC
121	TAATTTCTCA	TTTTTAAAT	ACGTCAAACG	GTTTATGGCG	CAGAGAGCTT	CATCTAATAG
181	TAGGAATGAT	ATGTCCGCTT	TCTTATTAGA	TTTGATTTTT	GAAAAATTGA	TAGAGTTTTT
241	ATTATCAACA	GGATGGAATA	GAGAAGCTCT	GGGAGGAACT	ACTGGGGCTA	TTCTTATGAT
301	CAGGACGGCA	ACTTGTCGTC	TAGCGCAATC	TTATTACCCC	CTCCCTGAAA	CCGTTGGTAT
361	GGACTTTTTG	CAAACACCTG	GGTTTGACTA	CAATAAATCT	TTCCCTAACA	ATGAAAGGTA
421	TATATATGAA	TTTCAAGCTA	CAATGTAAAT	AATTGGTTAA	TAAAAATAAG	GTATATTTTT
481	AAAAATGTG	TTTATTTTTT	CCCAACCTTA	AACAGATCAT	TGCCAGGAGA	AAATCGCATA
541	CTTAACAGAT	AATGCCTATT	TGTATCATCG	ATGTCTTCGT	CAAACGTTGC	TCCAAACACA
601	AGTGTGTTGA	TCCTATTTTT	CTTCAAAACT	GTTGGTTTGA	AATATAATAC	AAATTGTGTA
661	GCTGAAAATT	CCCTTCCTGT	AGCATTTAGA	CCTGGAGACA	GTGAAACAGA	GTCCACTGTT
721	ATATCCCTCT	TTGTATTATT	GTATACTCTT	GCATACAATT	CTAATTCCTT	AGATTCCGGCT
781	TTGTTTACAT	TTAGTGTGTG	GTCTCCGTCT	CCAAGTAAAG	ATGTGAGGAT	TATGTCTCCT
841	TTCTTTTTTA	CCAGTTCAGA	ATCGGACGTT	CCTTGGCCAG	CTACATATAC	CTTTCCATAG
901	TTCCTGGTTT	GTAATGTGCC	GTTTACAAAG	TTAAAGTGGT	TTCCTCTAGC	AACACCGTTA
961	ATGGTCAAGT	TTATTATTTT	AGATTCAACA	GGGTAGGCGT	CTTTATCCTT	CTTGTCCAAT
1021	TTCTTGTTAA	GTTCTATGTT	GGTTACAAC	ATAGATATAA	CCACGAGTAT	CAATGTCAAA
1081	CCCGCCAGTA	TAGCGGCGTA	AACCCCCAC	ATGTGCATTT	TGAAGAAAGT	TGTACAAAGG
1141	TCATGAGAGA	AAAAACAGA	TATTAAAGTT	TGTTATATTT	TATTTAGTCG	TAGAAATCAC
1201	CACTGAGATA	TATTGTGAGC	AGCAACTGCC	TTTTCAGCAT	ACTCGAAAGA	AGAATAGTTG
1261	CGATCCTTTG	AAGCCGGCAT	CTTGAAATGA	TGTGCAGTAT	TATTTCTGCT	AGTTTGTGTTG
1321	AAGTACTGGA	TAGCCTTTAC	TGAGTTGAAA	GTTTCACGGG	AACAGCTTGA	ACAGTTGATG
1381	GAGGAAGAAG	TTCGCCTGCA	CTGGCAATTC	ACAAAGGAGT	GCTGATTATT	GTTGTTATGA
1441	TGGTACATTT	TGAAGGTGAG	AGCACGTCTT	TCTTCAACCA	AAGGTGTTTG	TCTAATGTGG
1501	CTCAGGTACA	TCCACGCTCA	CCTTTTATAC	CAACGTCTTA	CAGTTCCTTC	AGATCTTCCG
1561	TCATGGCTTT	AATCTTGTTG	GTTATCCCTC	GATCTACGAA	GAATCTAATA	TCTCCCTCAG
1621	ATCTGTTCAA	AACTTTCAC	GACTCCATTG	GGTCCAGAGT	ATAATCTGAC	CTTTCTATGT

1681	TTTTGACAAC	TACAGGATCT	GGTTGAATAT	ATGCAGATGA	TGCATCAAAA	TCTACTTCTT
1741	CGCCGCTCAT	GCCTGTTTCT	AGTCTTGAAA	GGAGTGTGTC	CAAATCTTCC	TCTTCTTCGT
1801	CTTCTTCCAT	TTCTTCTCCA	CTATCTAAAA	ATTCGTCTAT	ATCATTATCA	TCAAAGTCTA
1861	TGTCTATATC	ATCATCATCA	TCTTCCCCAA	GAGATGAAGA	AGGAGATGGG	GTTCTGTGCG
1921	GGGGAGGTGG	AGGAGTAGGA	GTAGGAGTAG	GTGGAGGAGT	AGGAGTAGGA	GTAGGAGGGG
1981	GTGGAGGTAA	CAAACCTTCT	CCAGGCACAG	TTCTGTTCCT	TCCACCTCCT	GTATTGGACC
2041	CAGTATTTAC	ACTCGGTTGT	TCAAATTCAA	AAACTTCCTC	CTCTTCTTTT	CCGTCTTCTA
2101	CAGCACCTTC	CTCGTCTCTT	CCGATCGGCC	TATTTTCAGG	TTCCCTTCGC	CCTAATACAG
2161	CTCCTTCGGT	GTCATCTTCT	TTTTCTTCTT	CTTTATCTTT	CTTTGTTTTT	TTATTGGATG
2221	TTGTAGTAGT	TTTATTTGGT	CGTGACATGA	AAATCACACC	AACCACCACA	CCCCAAAAAC
2281	ACACAAAAAG	TATGAGAGAT	AATAAAAGGA	ACATCATTAT	TATCCTTATT	TTTTTACATT
2341	CAATTATGGC	ACCAGAAAAA	TAAAATGATT	TGTACAAACA	CGAGTTACCC	CTCCACACGC
2401	CTGACCTCTG	CCGCGAATTC	TTCATACCCT	TCCATATTCT	TTGCTGCAAA	GGTCACGTCA
2461	TGTTGATGAG	CTACCATTTC	ATATCGCATA	TCTCGCCAAA	AAGATCCATC	CGCAACAGCG
2521	GCCGTGCATT	CTTCTTCAAT	GGCAGAAGTC	ATGTCAGCTG	TCATTTTTTT	AATAAGATCA
2581	CGTAGTATTT	CCTCCCTATA	CAAACTCTAT	ACCTTCTGCC	TAAAGACAGG	CCTCTCTGCT
2641	AAAAGAGAAG	GATTTTCTGT	AAGCTGGTCC	ATGGTGTAAT	AAAGTGTTCA	TTTATCTAAC
2701	TTTTAAACC	CAAACTCTTC	TAAAATATCT	ACAGATTCCA	GGTACTCTGC	CGCCATGTTT
2761	GTAATCATTG	TATTTGCCTT	GTCTATCACT	GCTTGTCTTT	TATCTTCCAC	ATCTCCCACC
2821	TCGTCTTCGT	GTTTTTTCCT	TTCTTCTTCT	AGAAGCCGTC	TAAAGACAGC	TTCTCTAATT
2881	GAAGGTATTA	GCCCCCTAAC	TACCTGAGAA	GCTTCCTGTT	TTACATCATT	CACAAATTCG
2941	GGCGATTGTA	GTACGAGCGT	GATCGCGCTC	TTGTAGATGT	CTTCCAAAT	GTCCATTTTT
3001	GTTGTTTAGA	CCTAGATAGA	GAGTGGGAGA	CGCTATTAAT	TTTTTTGTTT	ATGTGGCTCA
3061	TGACCTCATG	TCCGATATAT	GTATTGGTTG	GGTGTAATAC	AAGTCTCTAC	AAAGCAATAG
3121	AAGGGGTAAA	AACAAAACAC	ACCATGGTGC	TAACTCTTTC	CTGTACGACT	AGGCGCGTAG
3181	CGTCTAGCAA	GGGGAATTTT	TCTAAGGAAG	ATGCGGTGTT	GGGGAACCA	TTCCCCATTT
3241	TAAAGAAATC	AAACAACCTG	TCAATTGCAA	GACCTCCCTC	AATAGAATCT	TTTTCTGCAT
3301	CAGTGGAAAA	AATATTCAGG	GAATGGAACG	AAAGTGGGGG	AGAAAAAATT	TTCGACATAT
3361	TTCAGAATGA	AGAAGAATGG	ATGGATATCA	TATCCTTAGT	GGAAAGTGTA	TATGAACCTG
3421	CCTTTTCTAA	ATCACTTAAA	CCTGATAAAT	TGGCAGATAA	AACATGTCTA	ACCGCGGCTG
3481	CCTTTGCAGC	ACTAGCTTCT	GCCGTGGATG	AAAAATTGAC	AATCTTATCA	GGTAGTGATG
3541	GGAGTGTGCT	TCAACGTACA	ACAAAGGTTA	TGAAAAAGGA	CCCCAAAAAA	ATAGCAGAA
3601	CTCTTTTAAA	TAATGAAAAA	TGGACATCTA	TTTTATTGGA	CAGGTTAAAA	ACAGCCAAGA
3661	AACTTCTAAG	CAGACGAGGT	GCACTGAAAA	GCGCCGAAAG	AGTAGAAGTA	CTTCATCGGT
3721	TGAATAAACT	CAAGGAGGCT	CCTCTTCCCC	ACCATCCGAG	CCTATTTGAT	AATTTTAGTG
3781	GAGGAAAAAC	ATCAGCAGTA	TCTGCTGGAA	CAGTCATCGC	ATCAGATATG	CATTTCAAAT
3841	TGTTTGAACA	TATTTTAAAG	GTCTCCTTTA	GAAAATGGGG	TCCCTGTGGA	GATAAACTG
3901	AAAGCGGGGA	AGAAGAAGAT	GAGGAAGAAG	AAAGAAGAAG	AAAGAACAAT	TCCATATCAA
3961	GATTCGTGCT	TCAATTTATG	AACGGACACA	ACGGGCAACA	TTATCATAGG	CCCGAAAGTG
4021	CTTCTGTTTA	CTTTTGTGAT	TATTATGACT	ATTTGGCCTA	CAGGAATCTC	CCTAATGAGT
4081	ACAAATTATC	GTCAATGCAT	CCTGGCACAT	TCAATATGGA	GGATTTACCT	TTCCGCCCTT
4141	TCGCAGTACC	TTCAACTTAT	AAGACAGAAT	TAGAGTACAA	AAGGTTTGTG	CAATCAACAA
4201	ATCTTCCCCA	GCTAAGTTTC	GACTATGGGG	AGTTTTTATG	TTACTGTATC	TTCCGAGCAG
4261	ATTGGTACAA	ACACCTGGGG	GATGTGGTAG	ATTCTCTAGA	AAATAGTTCC	ATGATATCAT
4321	TTGATTCTCA	GACATTGAGT	GGTGTGTATA	AGAACACTGC	TAATTACAAA	AGGTTGGGGA
4381	AGAAAAGAAA	CGGAATAGCC	GATTTGGCCG	TTAGGAGTAT	GGCAGAATTT	ATCCGCACTG
4441	AAGCGCATAA	GGCATTGACA	GCAGAAGAGA	TGGAAGAAGA	AGAAGAGGAA	GAAGAAGCGG
4501	AAGAAGAAGC	GATGGACCAG	GAGCCTGCAG	AAGTAGACTT	CCTTTTCAGT	CCTCATTTAC
4561	GCCGTAAAA	TCGTCAAGCT	GTTTCTGTGT	TAAATAACTT	TGTGGAGAAC	GATCTTTCTA
4621	TATTGGTTTC	TAACCTCAAG	AATGTGTTAA	CCGATGATAC	TGTATCAGGA	ACAGATACGG
4681	ACAACCTTGG	TTCTAGTGGA	GAATTTGAAG	CATTATCTTC	CCATTTATTC	CTTTCAAGAA
4741	TATTGGATGA	AGTGCACATT	CTTAGGAATA	CTGATATACA	AAGAACCCTA	TTTTCAACGC
4801	ACGTGTCTCT	GTCGGATAAA	TCTCCCCCTA	GCCGTGTCCG	TGGAAGCAAT	GTCAACTTTA
4861	ATAATAACGC	TGGGAACATT	TCTTCCCTGC	AAACGTATGG	CGGTATAGAA	GAGTTGCTTG
4921	AAAATGTACT	AGTCGGTTTG	TCCGGAGGAT	TTGAAGATAC	CGACATGTAT	TCCGGAGAGG
4981	ATGTTGTTGT	CGTATGGGAT	GGTTGTGATG	GAGGAAAAGT	GCTAAGTGTC	ACCTTCAATT
5041	GTGGTGATAA	TTTTATCCAG	CTCCATGAAA	AAACAGCAGA	AACTTTTAAG	GATGATACGG
5101	ATTTAGTTGA	ACGAATAAGA	GATGTGCTTC	AGACTGCAAG	TAAGACCGGA	AACCTTAACA
5161	AAAAAGCATA	TTCAAGGAAG	AACATCTACG	CTGTTTTCGG	TGAAAATGGC	ATTGAGCGCC
5221	CCGGGGACGA	TTTTACAGAA	AGAGGGATTG	CTCTCAAGGA	TAAAACAAAT	CAACCCCTTC
5281	CCCCTGCAAG	AAGTGCCAAG	ATAACGGTTG	AAGGAGTCAA	GGGATTTTTT	AGCGGTTTTT

5341 GTGACATTTT GGAGACGAGG GCGCTCACCA CATATAGTGC AGAAACCTTC AGAGATTTAG
5401 GCCAAGGCAT AGTAAAAGAG ACCGAAGGAC TGACAGCTGC AACAGTGGCA GAAACATCCT
5461 TCTCTGAAGG TTTAGCTGAA AGTTTAAAGG CTGATGCGAA TCTAGGTCTA GAATTTTCAG
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5581 GGGCATTAAAG AGCAAACAAT ACTTCTTTTT CGTCGTTTGC AAGGGACATG GCGCTCCAAG
5641 TTAGTGCCGA TTTAGATGCT GAATTTGCTG CAGAGATGAG AGAAACATAC CCCGATGCAG
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5761 TGAAGAACT AAAGAAAATA GACAGTTATT TGACAGAGAA TCCAGAAAGG TCGGGCAAAG
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5881 ATGCAGTTAC AGTGTTGATG AACAACCTTG GAAAGGTTAC AATTGTAGTA GGGGCTTCTG
5941 TGGTGGCCGG GTTTTTAGGT CCAGCCGCTG TCGCCCTGGT GCATGCGTCC AGAGGGGCAC
6001 ATCTCAACGT CGTGGACCAC ACCAGCCCTA AAGGTGTCAT CAGTTATAAA ATTGTGGACT
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6181 TCCCTGAAAG CGGAGGACCC AAATCGAAAT ATAAGGCCTA CGACCAATC TGTGGAACAA
6241 AAGATGCTGC TCAAGGAGAA TGTGGATCTT GGGCAACATT CGACGACCCG CATCTGTAT
6301 TGCCTTGGGT GGCAAGCATG AAAGATTGTC CTAAGGACA ATCCCTCTCC TCGGATAAAG
6361 GGATGTCCAC TTTAAAGGCA GTTCTTCCG TTCTTTTGTG CATAGGAAAG GATGTTGCAG
6421 AGGCTATTTT TGAGGTTGCA GAGGACGCCG TGGTGGGGTT GCGAGCAAG GCAATTTTCAG
6481 CTGTAATAAA TAACCCCTTG TTCAATTTG GAGTGCCCT TGGATTTGGT ATAGCTGCTA
6541 CACGCCTCAA TCCATCCAAC TGGAAAAGTG GCCTCATTTG ATTTTCAATA CTACTAGTGG
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6901 TCAACGACTT TTATACAAA ATAATAACA CAGACATCAT AAAAATGGAT AGGTAAAATA
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7081 TATAAGTTT TATGACGTT TTTCCATCAC CCATTCGAT TTTATTCCTA TTCTTCTCCA
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7201 ATGGCTCCGA CATATCTTGT ACTGTCGATT GGATAGTTTC AGCTAGGGAA TGTTTTTCTG
7261 GTCCAAATTC TCCTCTCCA TAACGGATGC GACGATAAGC TTCAGCAGAA GCCAGCAGGC
7321 AAAAGTGGGC CCAGCCAGCC TCGTCAGTAC ACATGGGGTG CTTCAGAGTT TTTGTTCTAT
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7441 CCGTTTTTGA CAAGTAAGTG ACTGGCAACT GTTTGGCAGT AAATTGTTCA TTGATATGAG
7501 AAGTGGAGTA TTTTCTTGT TTAGAAGCAT GTCGTATATA GAGAGCGACA GCTAAGGCAG
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7621 TTACAATTTT GTTCCACATG GTCATAATTT CTCAGAAAAG TTCCTCAACA GGGGAATTAT
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7741 AATATTTTGT CTAGATTGAA GCATTGCAGC AATCTCCTGT TTAGCATGGA CAACCTGTAT
7801 ATCATCACGA GGCAAAAGAT TGTCCTTTGA TCCTTTTGTG AAAGCTTCGA TGTTTATAAA
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8461 CATGTTTGAG GAGGGATGGT TGTGATACT ACCCGAGCTC ATGCCGTACA CCGAATGACG
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8821 TTGATAAATC TATCAACGTA CTTTTTTATT CGCTGTTTTC TGGTCTGGA ATTCCGTGAA
8881 GAAGATCGTA GAAAGTTTGC ATCAGCAGAT GTGGATTCTG TATCTGAATC TTCTTCTCTC
8941 TCCTCTCCAA GAAGAGAATC GACGTTAGTG TCTGATTCAG AGTCATATTC TTCTTCTCTC

9001	TCTTCTTCCT	CATCGCTTGA	AGGGATGGCC	GAAGACGTGG	GAGAAGAAGA	GGAGGATGAG
9061	GAAGAAGATG	TAGAAGTAGA	AGCCATTTCT	TTGTTTGTG	TTGTTACCTG	CCCATGTTCC
9121	TCCTCGACAT	CATCTTCTTC	TTCAATCTTA	TTCAAGTGAC	GGTTCAATTG	CTGCTGATAA
9181	TGCCTTGTGT	TTGTTACAGT	GCTAGACCAT	AAAGCCCTCC	TGGAAGCAGC	CGATGCTCCA
9241	GGGTCCATTT	CTGATCGCGT	ACATCTAACC	TTAGCAATAA	CCAGAAATAC	GTGCTTTTTT
9301	TTTACTTTCA	GCCAGCCGTG	TTAGTCATCT	ACGGAATGGT	GTCTTTGTCT	TTAGATGAGG
9361	AGTCGTACAG	GCAAAATTTG	GGTAAACCTT	CAAACCTCGC	TGTGCAGTTA	TCAAAGCATA
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9481	CATTAACAAA	AACACTATTT	TCTTTAGTGA	GTGTTAGTTT	CTTTCTATTG	CACAGTATTA
9541	TGTCCACATC	GTGCCCATT	GTGTTATTTT	TATCATTGAT	GACAGAAATG	TCGTAAGCAC
9601	TTTCTCCTTC	TTCTTCCCCC	CACTCCCTTT	CTGCTTGTTT	CTCCTCCTCG	TCTTCAAATT
9661	CTTCGTCTGC	GTCTTCTTCT	TCTTCTCTCC	CGCCAAACCT	CTCCCTCGTT	TCTTCTCTCT
9721	CGTCATTTAT	TATATGTCTC	CTAAATTTCT	TGTCCAATAA	TTTTGTAAATG	AAAACACACT
9781	CTGGCTTCTT	CCTGACCTTT	AAGAACTTG	CATCCATCAT	GCTGTTCAAT	CTCATATCAC
9841	AAAGGCCATC	ATACCTATCA	TCTCTGGCCA	TGATCGCTTT	GACGCTCAAG	AATATATCGT
9901	ACATAATCTT	AGACTCTTTT	TTAGGTGAGA	AAAGTTGGTT	TTGGAACGTG	CTAAATTTAA
9961	TGAAACCACG	GGACAATTTT	TAGCCAAAC	CAAGAAGATG	AGAACCTCGT	TACCCTTCTC
10021	TGTGGGAATG	TGCTAGTGCA	GCATTATGTA	TAGTAAAAAG	CAAAACCAGG	TTTTCTTTAG
10081	CCAAACTCTG	TATAACATTA	GTTGCCGTCA	CTACAGGTAT	GAGATTTGTC	ATATCTAATT
10141	CAGGTACATC	TAAACATTCA	CTGATAGGAA	TCACTCCCTC	TTTCTCTCCT	TGACCAACAA
10201	TTCTCACCCT	CACTAGTTGA	TGTGCATCTT	TTATGGCTCT	ATCATAATCA	TGGGGGAAGT
10261	TTGATAGAGC	TAACGTTGTA	GCATTTTCTT	CTTGCAAAGG	TAAACACCCT	TCGTCTTCAT
10321	CATTGTCTGG	AACATCTTCA	TCAAAGTCCA	TGCCGTTATT	GTTATTATAT	GCCATTATAT
10381	TAGAGAAAAC	ATCCATCTTT	CTATTCTTAG	GACCAGAAGG	GAGCATTAGA	GCAGTTAATG
10441	AAGGTGCATC	ACTTTCTATT	TTATTGTCT	TGGAAGTAAC	TTCGTTATTT	TTCTGATTCA
10501	AAGTGTCTAT	CAGGGCAGAT	GCTGCATCAC	GCACTCGCTT	CTCGCGTGGG	AGAAGATTGT
10561	CACAATCAGA	TTTAAAGTGG	ACTAAATGCA	GACACAAATT	AGAAAAACG	AATTGAGATG
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10921	CTTGATCGAT	AAATTGTTCC	CTCATAACTG	CGGCAGCAAT	ATCTATGSGA	TTATTACTGT
10981	ATCTATCGGC	ATATGTTCCCT	GCCTTTGAAT	CTTTGATCCT	CTTATCCAAA	CTATCAAAAA
11041	ATCTTCTCTC	TGCGGGCGAG	TCTGTAGAGA	ATATGAGGAA	CTGAGGGACT	GAAAGTTGAC
11101	CGTTTCTGTG	AGTCCATCCG	ATAGTCTGTA	GGAAAGCAAT	GGCGTTATAA	GGTACATCTA
11161	AAACGCAATG	GTAACGTTTA	GCGTACATGG	AGTTATTAGA	AGAGTCATGT	AAAGAGAGAC
11221	CGGTATTGCC	TTTAGTGTCC	AGCATTATAA	CGTCGACTTC	TTTCGTGTTG	TTGAATGCAC
11281	TAATACATTT	GTTTGTGTTG	GCAGTTTATG	TATTGTTTTT	AACCAGAAAC	AATCCCCTAT
11341	TCGTTATACG	CGAACACAAT	TTCTGTGTTG	TTATTTTCAGC	GTTACTATCC	TCCCCTATTG
11401	ATTGTGTGAT	TGAATCTATA	GGGTTGCCTG	CTAGCGCCAT	GAGCGGTTCC	GTGTCAGGGA
11461	CTGAAGGCAC	AAGCATAACG	TGAGCTGGGG	AAGTTCTTCT	ATTGGTTTTA	TTCTTTAAGG
11521	AGATTGTGAA	AGCTGAAGCC	ATCATGACTG	CACGGCACAA	AAGTCTATAG	CCTGAGAATA
11581	TTGTATTAGC	AACAGGCGAT	GAATCGAATG	TCCCCACGTC	TACGATGCCG	TATTTTGCCT
11641	CACTTTCATC	CTTGCGGATC	GTTTGTAAGA	TGCGTGTAGT	CAAATTCTTG	AGAAAAGAAT
11701	CCCCAGTTTG	CTCTAGTGAC	ATGACCATCT	TTTTTGATTG	GTTTGTGTTG	CTTAAACGCT
11761	TCACTGCATC	GGTGACAGAA	GTTGCCTTGA	TATTCAATAG	TGCACCTTTA	CATGCTGCCA
11821	CAGAAGTACT	TGCTGTATTA	ATGAAGTATT	GTCTCCTCAA	CTTTTCAAAA	CACTCGTCCT
11881	CAAATACTTC	ACCCCATCCG	TCTTCTTCAT	TAGCACCGTC	GTCATAATCT	TCGTTAAAAAT
11941	CAGTTTTTACC	TTTGGAAGGT	TTTTCTTTTT	TCTTGATAGC	ATCGTATAAA	TCTTGAGCAA
12001	CCATATCAAT	GCTGCTTATG	TCAACTTCCG	GAGACGTTAT	TATTCCTCCT	CCTCCATTAG
12061	AAAGCGCATC	CTTTTCTGTG	GAGTAGGTTT	TTATAGCATC	TTGTACTATA	CTTCTTAGTG
12121	TTGTTTTCCC	ATCATGTCGG	ACATCCCTAT	CGCGCACAA	CACCACCTTA	AAACGCCTGT
12181	CGATATTTTC	CATTACTTCA	TATAAATCAT	CATCATTTGC	AGCACGTTTC	CTCTTTCTGG
12241	ACGGGGAATT	AATCTCTGCT	ACTAATTTTT	CAACATCTTC	CTCTTCCAAT	ATTCTCTCTT
12301	CTTGGTGTTC	TCGTATAATC	TTTGTGAAGG	CCCTTCTGAC	ATGTCCTCCT	ACTTTTTTCAG
12361	AATCGATGAG	TACTTGTCTA	GCGTTTAAAC	AGTACGAAGC	CAATTCGTCT	ATAGCGTATT
12421	TTTGAAGAGG	GGAGGCTTTA	CAATTAGTAG	TAGAGCAGTC	GACTCCAGCC	ATGCTAATAC
12481	TCCTACTAAC	CAATTGTCTT	CTATTTCTTA	AAAGTTTAAT	AACCTGTTCC	AGAAACACTG
12541	TCACGTACTC	GCTGTGCTCA	GCCATAGCAT	CTGGAGTAGC	ACTGGACACT	TCTTTGAAGG
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12661 CAGCATTGCT CTGGAATGGC GTAGCGCTGG CCATAACCGT GAACGTATCA TACTTTAAGA
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 12961 AGTCACTAAT ATTTTGAGTC TTGTGGAAC CTGCACATAA TAATGCTGTG ACAAGTTGT
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16321	TGATGTAGAT	GGAGGAGGAG	GAGGAGCGTC	ACCACTTACG	CCTGATGCAC	TATGGTGATG
16381	GATATCATGT	ACACCAAATA	AAGAATCGTA	CAATTCAGTA	TCGTCTTTTT	CTATATTATC
16441	CTTCAAATTG	ACCATCCTTT	GTCTAAACTT	TTTCCCGGAT	ACAGCATCTA	GATATTTGTT
16501	AGATTTTTTCG	ATGGTGGCCT	CACTCAATCT	ATCTATATGG	TGTTCAAGGCA	CGAGAAGAGA
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16621	TGACGGAACG	TTCCATTTAT	TCCCTTTAAC	AGTCAAATTC	ATCATGTCCA	GGAGAGCGGG
16681	GTGAGGTGGG	TAATTGCTTG	CATCTTCCAC	CCCGTCATGC	CTACCTCTGG	CTTCTAGGTA
16741	TTCTTCTAGT	GTCTTTTCAG	GGTTAGCTCC	TTGAACTGCT	TTCAATTTAC	TTTTTCATCCC
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16861	AGCGCAGACT	AGCGCAAAAA	TACAGCCTAA	CACGAACACG	GTCACGAATA	ACGTTATTTG
16921	CGCGGTGAAG	CGCATACTTC	GGTTGGTAGG	GTAAAGTAAC	GGATCTCTTC	GTCGTTCAATC
16981	CATCGTTCCT	GATATTACAA	TGGATATCTT	CCTAGATAAA	TCTCATACAG	GTGCCACCCT
17041	TTTAGGGTCT	TATAAGACGC	AGACTGTGAA	AAATAATTCT	ACGTTAAAAA	AGCTTAAAT
17101	GGGCGCGCCT	ACCAACGCTG	ATTTTACACG	CACGGTATCA	GGAGTAGCTT	CTTCTCTCTA
17161	TCTTGTTAAC	CCTGGAGCTC	CTTCCGATAG	AGAAAAGTTA	GTTTTGGCCT	CTTCTTATTC
17221	TGACTCTTTT	GTGTACAACT	ACAAGGATGC	AGTGGTGACC	GCTGAGGCTC	CCAAGTGGTG
17281	TCCCTTTAAC	GAGCCAGCTC	TTCATGAGCA	CATCATGAAC	AGACTTGAAA	AAGCTGGTCT
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17401	TCGCTATTCT	GGAGGAAGTA	CTCCCCAGAA	CTTAATTTTC	CCGATTGGAG	CATCAGAGAT
17461	AAATTGGTTG	GTCATACTTA	GAAATGCTGC	TCGTTTTGGT	ACAGTGGCAG	CATCGGCCAA
17521	AGACGCCATC	GAACGCATTC	CTGATCTAAG	AGAAGGTGGT	ACAAGTAAAC	ATGTGGCAAA
17581	GAATGCAATG	AGGAGACTTC	GTGTATGGCG	AGCCTTTAAC	TGGATAGCGG	AAGCCTCCAG
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17821	CTGGACGATC	GTTGAAGCTG	TCATCCGGTA	CAAGAATAGA	CATGCTCGAA	CAATCAGTAA
17881	TGAAACTAAT	GCCATCCCTG	AAGACTCTTC	TATAAACTTG	GAGTGGGAGG	ATGTTCTAGT
17941	AAAAAACCBA	CGCGACACAA	ATCAAGGAGA	TGATTCTACG	TTAGAAAAGA	CCTTAGAAGC
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18181	AGCAGGCATA	TGGGTTATTA	TGCAGAGTCT	TTTAAAGCAA	ATCAATTTCT	CTATACTCCA
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18721	ACTAAGAGGT	GAAGAAGAAG	AAGAAGAAGA	GGAGGAGGAG	GAAGAGGGAG	AAGAAATGGA
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18961	CTCCACTCAA	CAACCTCCCC	AAAAGCGTCA	GCGAGGTAAA	AATGCGCCCCA	TTTCAACCAA
19021	GGGAAAAAGG	TTAAAGGAAA	GAGATAATAT	TGGAGGATTT	TTATTAGCCA	CAATTCAAAA
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19141	ATATGTTAAA	GGTGAAAAAT	GTGGAGATAA	TGGACTACCA	GAATTGTTAA	TTGAAAAGGT
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25861 TTCAAAGATT GAGGCCATTT TTTTGGTTGT TGCTGCTGAG AGAGGAGCAA GTAGTAGTGT
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25981 CTCCACATC TTTTATACCG GGGTCGGCTA GAACCCAGAA ACGGTTTGAC TCACATCTGG
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26101 GCGGTCCACC CTTTGAACCT GACATTCGAT CGACTCAGCG GTCCATCCCC TAACTGGAG
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27721	CAAAAATTTT	TAGAAAATTT	TTCTGGGTCG	CTCGAGTTTA	GAGGGTGGAC	CGCTGGCTCG
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29581	CCTTTTCACA	ATAAGATTAT	CGCACAGTTT	GTCGGTCTTT	TTTCTTACCA	TATCTCCCTT
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29701	CAACAGTATT	GCACCACACA	AACCACTACC	CACTGCTTCG	TTTATTGCAA	CATTTTTTAG
29761	AATATTGTCC	ATCATTTTCG	CAGAGAATTT	TGGCATCGTG	TCAAATATAC	TGTAAGGGGT
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29881	TTCAGCAACA	GTTTTTGTA	TAGTCTCACA	GTAATCTTCT	ACCATTCTCT	CTTCTATCGA
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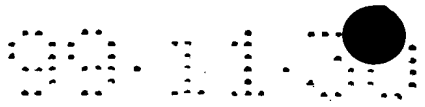
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95881	CTGGATCTTC	ATACCAGAAA	ACAACCTCAA	GATTGTCCAG	AACCTCACTCC	CAGACGACCA
95941	AGTTATCTCC	CAATTTCAGAT	ATTTTCGACCA	TAGACATTGC	TATACGTTTA	TGGAGATTTT
96001	GATGGCAAAC	ATTAAAATCC	AAGACAGGAA	ACAAAACACC	ACAGCCATAT	GTGAATTGAC
96061	AACCTGGAAG	GAAGGACTTT	TATGTAGAAG	AACCATACTT	GTATTTTTTG	GTTCAGAGGA
96121	AAAACGAGAA	GAGTTATTGG	GGAATCTCCC	TGAAGGTGCA	GAAATTTTCA	GGCCTAGAGA
96181	AGTTATGCAA	GTAATTGGTA	CTCTCTTGGG	CAAGAACTA	GAAATTGACG	ACGGTATAGC
96241	TTCTGTAAAG	GCTGCCCTCT	GTGCTGGTTC	ATCATCGTTA	TACCTAATCA	TGAGCCACAT
96301	AGTGAAATG	ACCTTTTCTG	CTATCACAAA	CATGAAGGAT	ATAAACGAAG	AATATTTCTG
96361	AGACTTTATA	TTTCGTCTA	AACAATTCCT	CAACCCTGAA	TTCTTCAAGC	ACCTTATATC
96421	TTTGCTCAAG	AATTCCAGGA	AGGAACATGT	TGCCCATCTA	GTAAGACGTC	TAGAACACTT
96481	TCTCATGCTA	TGGACCTTTT	CCAAGATGAG	GTTCACAGAA	ATGGAAGAAA	ACTACTTCCC
96541	AATCTCCAGC	GATAGTGATT	ACGGCATCTG	TGAAAAATGT	GCACGAAAAA	CTCCCAATA
96601	CAAGCTCCGT	ATTTTATAGG	AACGAAAAATG	CTGCGATAGA	TGTTGCCGTC	TTTATCACCA
96661	ACAACCGCCT	CCGGAGGTGT	ATAATTGGGA	TGGAAAAATA	ACCCAACAAT	CCAATAAAGG
96721	CTACATTAAT	GCAGGCGATG	AAATTATCGG	CATGCTAAAC	TCAAATGATA	AGGGAAAAAC
96781	ATTCCCTCCT	ATACCTAAGA	TGGTTGTACG	AAGAGTGGTG	GACGGTGTCT	ACGGGCAAGG

96841 AACTATCCTG TCAAAGATTT TGAAGTTCAG GCAGGCAAAT ATCCCCACGT GTCTATTTCGT
96901 GACATGCAAT AAATGCAATA GGATTTTCAG GCTCACTATC TTAGGGCCTA CAAGAAACAT
96961 CCTTTGCCCA CCTTGCAGAA AGAAAAGTGT TGCAGTAAAT ACACAACAGA AAGGAGAAAA
97021 TAAACCTTCG TTTGTGCAAA AAGGAACAAA ACGTCTACGA GTGGATACCG GTAGCAACAA
97081 GAACACGTTA GAAAAATTCT GTTCTTGGGA AAGATTCAAT ACTGAAGTTT TGCTCCCTTG
97141 GCTTGGCTAC ACTATTGAGT CTAAGTGGCA GAACTGGGAA TCTTTTCTGG GTTATTTCGAG
97201 TACCAGATAT AAGGAACGTG GGGCCTTTGT GAACAAACAG GAAATATCTT CCATGAAAGA
97261 CTCTACATA AAAATTGAAG ACATCGACCA GTTATTGAGG AGTATCTTGC AAGACCAGAA
97321 GGGTGTATTT GAGACCGTCT GCAAAATAAA GAGCAGAGAT GGTTTGTGAA TTGGCCACAC
97381 TGATTCCGAT ACCGACTAAA AAGGCTGATT GATGGCAACC CCCCCCCTC CAGACTCAGC
97441 CGCATGAGTA TAAATATGGC CACTTCTCAC ACCACAGCAT CATTCCCTCG TCATCGGTCC
97501 TACCGTCAAC TTCCATTATT ACTCCAATAA TACCAACAAC CCCAGAAATG GAGTCAATCA
97561 AACTGTTTAC CGTTGCTGGT CTGAATATGG AGCAAGCCAA CCAAGTGGCT GAAGAAATCA
97621 AGTCAAGATA TAAAACCGAG GAGGAAAAGA GGATTGCCCA GGAAGTGTTC GACAAATTCA
97681 CCAAAAAACT CATTATGCAA GTAGATACGT CTAACACTT ACTTACAAGA GAAAACCCCA
97741 ACCGTTTTGT ATCCCGCCCC ATTGTCCATG AAGATCTCTG GGAAATGTAC AAAAAAGAGG
97801 TTGCCTGTTT TTGGACATTG GAAGAGATTG ATTTGCGAAG GGATCCTAAA GATTGGGAGA
97861 AACTCACTCA AGATGAGAAG GATTTTCTTC TCCAGATTCT GCGGTTCTTT GCATCCTCTG
97921 ACGGAATTGT AATTGAAAAT CTTACAACAC GTCTTCGTCA AGTGGCGCAG ATTCCAGAAG
97981 CGAGGAGTTT CTTTGAATTC CAAGTTGGAA TGGAGAGTAT TCATGGCAAC GTCTACGGAG
98041 AACTGATTGA TAGACTGGTG CCCGACGAAA AAGACAAGGC TATCTTGTTC AACGCTGCAC
98101 AACACTTCCC CGCCATCAAG AAGAAGGAGC AGTGGGCTAT TAATTGGATG CAAAGCAATA
98161 ACGATTTGGC GGAACATAAT GTTGCTTTTG CTCAGTTGA AGGAATCTTC TTTAGTGGTG
98221 CATTTCGCATC CATTCTCTGG ATCAAGAACA GGGGTATTTT GCCTGGTCTC ACCTCCTCCA
98281 ATGAGTTCAT TTCTAGGGAC GAAGTCTTTC ATCGCGACTT TGCATGCATG CTGTTGAAAA
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98401 GAATTGAACA AGAATTTCTC ACAGTTTCCC TGCCTGTAA ATTAGTGGGA ATGAAGTGA
98461 AGTTGATGAG CCAGTACATT GAATTTGTGG CAGATAAACT ATTGGTTGAA ATGGGACTAG
98521 AAAAGCACTA TAATGTTACC AACCCCTTCC CATTATGGA CAATATTTCC CTCGAGAATA
98581 AGACCAACTT TTTTGAAGAAG AGAGTCGCCG AGTATCAACG TGCCCAGGTC ATGGCTTCTA
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98701 CTGCACCTCC TCCAGTCTCT TCCTCATCAT CCGAACAAGA AGATGTTGAA GACGGCGTCG
98761 GGGACTACAT CAGTTATGAC GATTTTTAGT TCCACTATTG TGTCATAGG TTGTGTATTG
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98881 TTACTTCCAA TATTCCTGAC AACCTTTTTT GTTGCGGTAG ATGCATGCTC TTGCTCTACC
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99001 GTGGTATACC CTACAGATGT GTGTGGCCCA AAGGGAGCTG GCGAATTATT CACTGGTGTG
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99121 CCTTGTCCAA GGATCAATAA CGCTGTCTGT GAACGAGATT ACTCCCTTGA CGAGGAGGAT
99181 TGTAAGGGT TTAGAAAGGG GTTCCGAATT CCTGGCACTG ACCATTTTCA TACTGCTTTT
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99301 GGTATAGTAA CTGATGATGA AGATTTGGTA GATTCTGGTA TTAGGACTAA ATTTAAATAC
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99421 GAGAGGATTA AGATATTAAA GTCTCATTTT AACAAGAGGA CGGGTAAATT CTTTGCTCGA
99481 GGCCACTTGG CTCCGGCTGG AGATTTTTTC CTCGCTTCAG AGAGATGGGC AACTTTTGCT
99541 CTAGAGAATG CAGTACCTCA AATACAGAAC CATAACAATG GTGAATGGAA AGATATTGAA
99601 AATCGTGCAA GAACACGCC AGGTGCCGCG TGGGCTGAGA CTGGACCAAT ATTTTACCAA
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99721 TACAAGATTG TGTACGACAA GAATAACAAG GAATGTTTCC GTGTACAGAG TGATATGTCT
99781 TTGAAATAAA ATACATAATT AAAGAATTTA TATTGTTTTA TTTTGTCTAT TATTTGATAC
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99901 TATGTCTGGA GCTCTGATGA ATGTCTTGCC AGATGCCATC CTAGTTTTTC TCCTGGGGAA
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100081 TTGTTTCAA GCTTCATAAT CTTCTCCTC ATCTTCATAG TCATCTGCAA CATTCTCAGT
100141 GTCTAATAGA ACAATAACAG AGTTGGGGGA AAAATCAGTC GTGCTACGTC CAGACTGGCC
100201 AGTATTTTTT CTGCTCCATG GTGTAGGATC ATGCTTTCTA GGCTTGTCTG AATGTAGACC
100261 ATTATAGTTG GCTCTCCCA TCATATCATA CAGTGTACAC ACTAGTGTAT TACCAATGCG
100321 TTTTCCACTC TTATTGTTAT CACAATAATC CTCATCTTCT CCAACAAGAG TTGAGTACAC
100381 ACTGGAATCT GTTAGAATTG TATGAGAAAC TAATGCCTCT TTAATAATAT CGTCACTCTC
100441 TTCTAACCAG AAATCTGATA CACTATCATT ACATTTATTT GCAGTATTAT CAATAAATGA

100501	ATTGAGTAAA	GGGTGTAAAG	GTTCCACGCC	AAATAAAGGT	ATAGGCACAA	ACTTTGCCTC
100561	ATCCGTGCGA	GGTAAAAATG	GCCTGTCTTC	GTTGTATGAT	TTTGAAAAGG	TTGTTGCAAG
100621	AACACAATTT	CTTGCAATTTT	TTAATGCCTC	AGCTGATATA	CGTAGACGTA	TACTGTTTAA
100681	CTTTTGCTCT	GTTGTCTGGT	TATTAAATCC	TCCACACAAC	GAGTACATGG	CATTATCGAT
100741	ATTCTCCCTC	GCATGATCCT	CTATGACCAA	ACCAGCCTTG	GTCATTAGAA	AATGGTCTGG
100801	GTCTTTACCG	AGAGGAAGAA	TATCTGCATT	GAATTTTGAA	ATTATATCAT	TGACAACACG
100861	TTACAGTGC	ACAGATCTCT	TTATGAATTT	AGAGGCTAGA	GATATGAAAT	GTCTATTTAA
100921	ATTGGAACCT	AGCCTATTCC	AAGGAAGTGA	ATTTTGATGT	CTTTTATTAT	CCCTCTCGTC
100981	AGAAGGGAAC	AAAAATTGAA	GTAATCTGGT	CCAATTAACC	GCAGCTGCAG	TTTCTCTCTG
101041	GACGAATGTT	TGACGTTGTT	TTAGTAGCTG	AAGAGACACT	TGGGTTGGCT	TGTCACACT
101101	AGCTGGAAGA	GGGTGTTGAA	AGCCACAGAC	GCCAAATCTG	AACGTCATCT	TTAGATTGGT
101161	GTGTAGAGAT	TTTGTGTATT	CCTCTTCGTG	GATTTTTCTT	CTCCTTTCAT	TGGGCACAAA
101221	CTCCTTTGTC	TTTAATTCTT	CCAAGAAGTC	TTGTACATTG	TCCTCATTCG	CGAACGTTAC
101281	CTTCCCATCT	TGCCCTCGTT	TCATCACGTC	GTTGTTCTTA	AACAGGCGCG	CAGAAAGCTG
101341	CATCAGGGAC	ATTTCTTCCA	ACTTTTTTAG	GTCTTCATGG	ATGTCCTTCT	TCCTCTTCCC
101401	CGAAGAGATA	AAAGACCCTA	TAACATTCTC	AATGCAATGA	ACTGCATACT	GTCTCAATTT
101461	TCTGTTTGTC	ATCCCTGAAC	CAAAGCCTAT	TACTGGAACA	ACCATGCCGC	ACCTGTGGTT
101521	GTATGTGAGC	CCACAAGCAA	CTGTCAATTT	CTTCAGAAGG	ATCTCGTATT	TTTCACTTCC
101581	ATTAACATCG	TTCGTAAAAC	TCTGTTTATA	CTTGTGAGCA	ACCCAGTTCA	CTATAAATAA
101641	CAAGGCATAA	GAAGCAGACA	CCTTTCGTCC	CAAAAGTTTA	GAAATTTGAA	GGGAGAGCCA
101701	GTCTGCCATG	TAGCCATCTG	ATTCTGTGTT	GGCGATAGGT	GTCTCATCA	TTGTGACGGA
101761	TGCTTTCTCC	ACTCTATCTG	CTACAAATTT	CACTGCTTTA	ACAATACTTT	TTCTGCACGC
101821	ATTTTGTCTA	TTAGAGTTTA	TTCTTGCTTA	TTGGAGTTCA	CAGGGGTAAT	ATTCTTCCCC
101881	GTCATTATCT	TCATTGGAGG	ATGAATTTTT	AGTTTTGTTG	TCGTTCTTTA	TATACTGTTT
101941	CAATTTTGAG	AAGGGAGTAT	CCAGTACGTT	TTCTCTACAT	GCACTAGCCG	CAGAAAGAGT
102001	GAAACCGAGC	AGGTAAAGTT	GTACACATGA	AAAGGCACCT	CCAAAAATAT	TACCAATGAA
102061	ATAAGCAAAT	ATTAATCCCC	TGATGTGGTT	GCTAGGGAAT	CTAAAGTTGT	GCTCCAGACT
102121	ATAATTCGTT	TCAACGTAA	AGTACCTTTC	CAATCTACGA	GGCACTTTAA	TGTTTTATGTC
102181	TGGAAGGATT	TCAAAATCT	CACTAAACAT	ACCCGACAAC	TTGTTTGATT	TTCCCAATAC
102241	AATATCTGAC	CTTATGTATT	TTTCATAAAA	GTCAAAATCC	GTCATCGTTA	AATCAGTTGG
102301	GGGCTTTTTT	GCATTTTTTA	GAGTATCCGA	AAGATGCACC	AAACCAGTTC	TGTAGTTGTA
102361	GTTTGCCATT	GCTTCATCGG	GCAATAATTT	GCTCACTTCA	TTGTATGCAT	CGACAACCTT
102421	TTCTGGAGCA	ATTTTTTTCAG	CATATAAACG	TTGCCATATT	TTCTTATCAG	GATCTAGTAG
102481	TTCAACGTGT	CTAGATTCTA	TTGTCTTCAC	ATCGACAAGA	AAGTATCCTT	CACGTATACT
102541	GGTGCAGGCC	AATCTCTCCA	TCTTCTTGTT	GTAGTAGTCT	ATCCTCTTCC	TGAAGCAAGA
102601	TATTATGGAA	GCAACTCCAT	CCAACATGTG	GTACAGGGCT	GATTGGGTAC	ACCACTCGTC
102661	ACTATTACT	CCATCACGAG	CAGTGAAGAA	ATCTTGAAGG	AAACTGTATA	TAGAGATGAA
102721	CGAAAACAGT	CTTCTGGATG	ATGTTTTTCAG	TCTCATGTCA	GTTCTCTGCA	TAAGTTTCTC
102781	GTGCCGTATA	ACTCTGTCTA	CGAATTCCCA	TGTCAGGTTT	TCATTTACGT	ATTCTTTTAG
102841	GAGTGCCTTT	TCTGCTTCTA	TAGTTGTAGT	AGAAGTTGAA	TCCATAATGT	AGGAATGAGG
102901	GAGGTACTTT	GGCACGCACG	TGTGCACTGA	CCGAGACACA	ACGGTGTACT	GAACAAGGGT
102961	TAAAGACGTT	GGCTGTTTTA	CACCTCTCAG	AGGAATCCCT	CTACCAGAAT	AAGTCCTTTC
103021	ATTTTTTTTAA	TTAACACACG	CAAACTGAC	GCTGAAATCG	TTTCGCAATA	ATGGGAGAGG
103081	AAGTGGGAGG	AGAACTTTCG	CCTGTGGTCG	TAGGGATACT	TTCCGGTGGTG	TTAACCGCCA
103141	TAATTATCTC	TACTATATTT	GCCATCTACT	ACTTTTATTT	CCGTCCAAAG	GAAGGGTTAA
103201	AGAAATCGCG	AGTCAGTAAA	GACCCCTTGG	CTATACGCGT	AGATGCTAAC	CATGTCCTCT
103261	CCAATAATTC	TCCCTACATG	ATGTTCAATA	CAAAACATTAA	GGCTAGAAAT	ACACTAACAG
103321	AATTTGATCC	CAAAAATATG	AATGAAGAGG	AACGAGCAGA	ATTTTTCAAG	ATCCATTATT
103381	TTACTGGGTT	CCCTAAAGAT	GTGGAAAAGG	AACAGGTGCA	GAAGAAGAAG	GAGGAAGAAG
103441	AAGAAGACGA	AGAGGAACAG	ACGACAGATA	CTAACCCCAA	AAATAAGAAA	GTGGAATATG
103501	TAATCTCTGA	ATCTCTGAGA	GGGGATAAGG	CTGGATTTTT	GATAGATGAG	AATAAGACCA
103561	TGTCTATACA	AGGTTCTCCT	GGTACAAAAA	CTGTCTGTAA	GAAAACGACC	CTACCAAAGT
103621	TTGTCCCAAC	CCCTAAAACG	GAAAAGTATG	TTCTCTCAGA	TGAAAGATTT	TTCAGGATGG
103681	AAGAAGGAAC	AGGAGAAAAG	GCAGAACATT	ATTCCTTCAC	GTCTGTTAAG	ACAGGAAGAA
103741	CCTTAATCAT	GGGCTCTTGT	GGCTACCCTG	TGATGAAGGA	TATAAGCAAA	GGTACAAGCC
103801	AACAGTACAT	GTACACATTT	GAACCAATAA	AGGAAAAAAA	GTAATGTCTT	TGTTTTATTTT
103861	CCCCTTTTTT	AGAAAAATTG	GAACAACAAC	AATGTCGTTG	GCTGTGACAG	AAGATTACGG
103921	GCACAATGAA	AAGTTGATCA	AACGGTTACA	ACCTCTGTGA	TATCACACCC	CTCTATTAGG
103981	TGCAGACCAT	GTAAATGAAAT	CCATATCAGA	CTACATAATT	TCTCGTCGAT	TCATGAACCT
104041	CACAAATTTA	TTAAACAAG	TTGAATATGT	TTTCGATGAA	GAAACAGGAG	CAGTTATAGC
104101	TAATATCTGT	CTGTTAAAAA	TCCTAGAAAG	ATGCGCACAG	AAAGGAGGAA	TATATGATGC

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104161	ACCAGAAGAT	GTTGCATTCT	TCAATTCTAA	GATGGGGGAA	GTAACGCGCC	TATTTACTAT
104221	TATAGGAGGT	AGGCCCAATA	TGACGGTGCG	GGTTAATTTT	AAACATGGGC	AGACAAATAA
104281	TCCTGCCTAT	GGTTATCTCA	CAGATGATAA	TGATACTACT	ACTGTTACTC	CTCCTGTTAC
104341	TCCTCCTCCA	TCTCCAGCTG	CAAGAAGATC	CCCTTTTTTC	ACACGCACTC	TCATATCCGA
104401	GTCGTCTTCA	GTTGACCATT	ATGTATTGAT	GCATGATAAC	CCAAAAAGAT	CTTCATTTAA
104461	GGTGTATGAT	ATTACGCGAG	AAACCTTTCC	CCATAAAGCT	CCTTCTGTTC	CTACCTTCCC
104521	CCCTAAAACC	TCGTTTGAAA	TTTCTGACGT	GACTCTCGAT	TGTTCAATGG	AGATTTTTTC
104581	ACGAGACAGG	GATGTTTTAG	ACAATGTTCA	CGACTATATT	GCTAACGACC	CCGTACCATT
104641	TTTAGTGGAT	GTTGTGCACC	GTGGATCTAG	TCTCCGTGTA	GTAAGTACTT	TAGTTGCAGC
104701	CGGTCTCATT	AGACCTGAAA	AATACCCTTC	ATTTGTTAGA	AAAGTGTGCT	TAGATCAAAA
104761	TGGCATCCAC	TTCTTCATCA	ACTAAGAAAA	GAGTACATGA	AGAAGATGAA	AATCTCATCC
104821	CACAACCCAA	AAAGAAAAAA	TCAAAGAAAG	TACTACCATT	TCCTGTTGAC	AAGTATAGAG
104881	CTGTGGATAA	AAAGGTGGTA	AATCTCATAC	ACAAGATATT	AGATCAAGAA	AAGGACCACC
104941	TTTCTAGTAC	CGAACTGCAA	ATGATAACTG	AATGTAATGG	TGCGCGAGAA	GATCTGCTTA
105001	AACATCTTCT	AGACGAAGGA	GAATTTAACC	CTACTATAAT	TGAAGTAGTA	TCATCCATGC
105061	CTTATACGAA	AATATACGAA	ATACTCTCTT	CTTCTGCTGA	CGACAAGAAG	TTTGTACAGA
105121	TATCATTATC	AATGTTGATC	CACATACCTT	TCTTCGCTGA	TAAGGGTACT	ATGTGGGTAT
105181	CCAACGCGTG	CGTTCAAAAT	GTTTTGGGGA	ACGACTATAA	AGTGGAAATTT	GAAAAATATAC
105241	GTAAAAAGTA	TCTGATATTG	GAAGACTTAC	TGAACGGCGT	TTCAAATCAT	TGGTCTGAAC
105301	ATGGTCTCTT	TTCTCACATG	CTCCATCTTT	CAATCCCTAT	TGTACAAGAC	ATGTTATTGA
105361	ACAGGCTGGT	GCGTTACTTT	AGCACGTATG	ATGGAGATGC	TCAATTCGAT	ATATCATTCA
105421	TAATTAATAG	TGTCTTGTGG	GGAAATGATA	AAAGTGTTC	CAACGAATTG	ACACAATTGA
105481	TATCGAGGGG	TGTTTTCAAT	TGTCGTACG	TACCGATGCG	TGTACGAACA	CCTTCAAAGG
105541	ACAGTAATCG	GCCACAAAAT	ACTCCTTCAC	AAAATATGTC	AGCACTAGGT	ATGAACTCA
105601	ATACATTTTC	ATCCAGAATC	TCAGTGTACA	GAAACAATAC	CTTTAAAAAA	CTAACCGAGT
105661	TAGTGCATAA	CTTTGATTAC	GGTTCCAAAG	ATGCATCATC	ATCATCTCCT	CCTCCTCCTT
105721	CATTATCGGA	CAGCGTCAAC	ACTTTTGTGA	GGTTGTACAC	CAACTATGAC	ATATTCTTAA
105781	AGGTGATTTT	CGACTGGAAA	ATGCCTTATG	GGTTCTTTAA	GAAAACTTTT	GACGTCTTTT
105841	ATTCTAAGGG	GTTGATGACA	TTATCAGTGT	CTGAATATAC	ACTCAAAAAA	GAGTTGGTTA
105901	CGTTTTTGCG	CGCCTTGAAG	GAAAGGGAAA	TTTTAATCTA	TAAAATGGAG	AAGAGAGACA
105961	TTATATGTAT	ACTGAAAAAG	TCTTTGTTCG	GATTTAATTT	CAGGTGTTTA	AAACAATTAC
106021	TCCCTCTCTT	CAAAACACTTT	TTAAAAATTG	AAGAGGTTAA	ACATATAGCA	CGTTTTGTCT
106081	TTAGAGATTA	CAGTCTCATG	TGCAAAACTC	AAAAAGATTT	GCAGAGTTTC	CCTGCCATAC
106141	AGTCTGCTTC	ACTTTTTCATG	GAAGAATTCC	CTTGGCTTGC	AAAAACTTGG	ATCGACGACG
106201	ATGATGATGA	AGGAGGAAAG	GGACATACCC	TATTAACATT	TGCTATAGTG	CACAGATATC
106261	CCTTAATAAG	CCAACCTTAT	TCACACCCAA	TTTTAAATATC	GTTAGTGAAT	ACTACATGTA
106321	GAGACAAGCA	CTTTACTCCC	CTCATGCACC	TCGCCAACAC	GTCTATAATG	TACCAATGCA
106381	ATACACTCTT	GTGCCTTATA	ATAAATGGAG	CTAAACCAGA	GTTCAATAAC	AAGTTCAACG
106441	AGAATGTTTT	GCATATAGCG	ATTGAAAAATG	TTAACTATGG	AGTCATCACT	AGTTGAGAG
106501	GAACATTATC	CAGCGAACAA	ATTGAAAAAA	TGGTCAATGT	AAGAAGAATG	ATGGATAATA
106561	CAACACCTTT	AATGATCGCC	TTGGCGAGGG	AGAATATTGT	ACTCGCTCAG	CTTTTTTGACG
106621	GTCTTTACAA	GCCCCAAAATA	AAGGTCCGTT	TCGGTTCTTC	AAAGAGGCTA	AGGATACCAG
106681	AGTTTGTCTT	CTTAAAGGGC	CTAAAGGAAT	CAGTTGCATA	TTTGGAAACG	AGGAATATAT
106741	CCTACGATAT	TAACATCATA	AAGGATGCAG	TAATGGACAA	CAGTCTTTTT	GAAGAGGAGT
106801	ACGAAATAGC	AGCAGCAGGA	CTGCGAGGCA	ATAACTGCGA	CCCTGAAGCA	GACGAGAAGA
106861	CTATGAACAC	GTGGAACCTT	TTCAACAAAA	ATTCAACCAA	ATGGGCAAGC	TCTATTTTCC
106921	AAAAGAATAG	GCAGAAATTT	GTAAAGATTG	TGGATGGTAT	GAATAGGACA	TATGAAGACT
106981	CTGAATGTGC	AATATGCTTG	GATAGTCTGG	ACGGGGATCT	TCCTTCAGGG	AGAACAACGT
107041	GCGGTCATTG	CTTCCACAAC	GTCTGTTGGT	TATCCTTGAT	AAGGATGAGC	GGGCCGAATA
107101	ATGGCAGCCG	CGCAAGAGGA	GGAGGAATAA	AATGCCCGTC	CTGCAGACAA	GTCACCTGCC
107161	TCGGAAAAAG	ACTAGGGGTT	GCCGACTATG	ATATTGAAAC	AGAGGAAGAA	CGTGACACGA
107221	AAAATGTCGT	GCCTTCGGTA	GAAGAAGGAA	GAAGGGAATG	GAGGAAGATT	GGTGTGACA
107281	GATGTAATT	TCTTGTAGGT	GGAGTGTGGA	CAAATGAAAT	AAAACATATA	AATGAACCTAG
107341	AATATTGGTA	TTATTTTTTAC	ACCTTACACA	TGTTCCAGAA	ACGTCTGTTT	CAGAAATGTG
107401	TTTTGAGATT	TCTGGACAAG	CCATTTCTGG	AGTAATCTGA	CATTGGGTCG	ACCCAGCGGT
107461	CCACCCTCGG	AACCTGACAT	TGGGTCGACC	GAGCGGTCCA	CCCTCTAAAC	TCGAGCGACC
107521	CAGAAAAATT	TTTTAAAAAT	TTTTTGAGATG	GAGAATGAGT	AAAATCTCTT	CCCTGAAAGG
107581	GAGGTCTGAA	GAGGCTATGA	CGGTTCTAGG	TGCCCCGCCCT	CTCCAGAAAC	GTCTGTTCCA
107641	GAAATGTGTT	TTGAGATTTC	TGGACACTCC	ATTCTGGAG	TAATCTGACA	TTGGGTGCGAC
107701	CCAGCGGTCC	ACCCTCGGAA	CTTGACATCA	GGCCGACCCA	GCGGTCCACC	CTCTAAACTC
107761	GAGTGACCCA	GAAAAATTTT	TAAAAATTTT	TTGAGATGGA	GAATGAGTAA	AATCTCTTCC

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107821	CTGAAAGGGA	GATCTGAAGA	GGCTATACCG	GTTCTAGGTG	CCCACCCTCT	CCAGAAACGT
107881	CTGTTCCAGA	AACTTACTAA	AGTTAAAGTA	CGTTTCTGGA	CAAGCCATTT	CTGGAGTAAT
107941	CTGACATTGG	GTCGACCCAG	CGGTCCACCC	TCGGAACCTG	ACATCAGGCC	GACCGAGCGG
108001	TCCACCCTCT	AAACTCGAGC	GACACAGAAA	AATTTTTTAA	AAATTTTTTGA	GATGTAGAAC
108061	GAGTAAACAA	CTCTAGTGGA	TTAGGGTGTT	AACAGCCTAC	CCTTTCTGGT	CGCAGCTAGA
108121	CCCAGAAACA	TCTGTTCCAG	AAACTTAATA	AAGTTAAAGT	ACGTTTCTGG	ACAAGCCATT
108181	TCTGGAGTAA	TCTGACATTG	GGTCGACCCA	GCGGTCCACC	CTCGGAACCT	GACATCAGGC
108241	CGACCCAGAG	GTCCACCCTC	TAAACTCGAG	CGACACAGAA	AAATTTTTTAA	AAAATTTTTTG
108301	AGATGTAGAA	CGAGTAAAC	TCTCTAGTGG	ATTAGGGTGT	TAACAGCCTA	CCCTTCTTGG
108361	GCGCAGCTAT	ACCCAGAAAC	ATCTGTTCCA	GAACTTACT	AAAGTTAAAG	TACATTTCTG
108421	GAGATGTGCG	CACGTATGCA	TGCATGCATA	CGTACCTATC	TGTATTTTTT	TAAAAGTAGG
108481	GGAAAATGCT	ATTTAATAAA	ACAACCACCA	TTCTCCGCTC	ACTATACAGC	TGACCTTCGT
108541	TGAGTAACCA	TGTCTAGCGG	AAAAGTAACC	TACGAAATCG	TTGAAGGGGG	ATTGTTGAAC
108601	AAACAAGTACC	TTCTAGATGG	AGGTGCAGCA	ATCTGTCTGC	AGTCTAATTG	TGTTGCAAGA
108661	AAACGTCACG	CCGTTTCCCT	CCACGATAAC	CTCTTCAAGA	TGCTAGGATT	TGGCGACCCC
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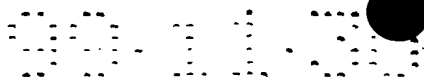
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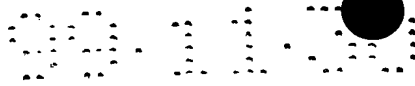
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162001	ACCAGGCTGA	AAATTCTTCT	AAAGGAGGAA	GTGATGGAAA	GAAATCATCG	CAGCAGAACA
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162121	TCATTGCGGA	TACTCCTCCC	TCTAAGAGTA	ATCCATTGAG	GGATGACCTT	GATGCTATTC
162181	CATCACGCAA	CCCATGGGTC	AAATTGACTC	AGAAGAATCT	GGAATATCTT	TTCTGGGAAG
162241	CAGTAACAAT	TGAAGTCTCC	AATGATAGGA	GTATCCGTAG	TGGAAGATAT	CTTCAAGCCA
162301	GTGAAGTGGG	GGAGAATCCA	TTCCTAATGA	CCATCAGTGT	TGACATTAGA	ATCCTGCAAA
162361	GAATGGCACT	TAATGTCTGT	TGGTTCTTCA	ACAGATTCTT	CCGCATGGTT	TCTGGACTTG
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162481	GAGTAGAGAT	GCTCCTCAAG	AACCTTTATT	CTGGAGAAAA	TGTGCCCCAG	GCACTGAAGT
162541	ATTTGAAGGA	ACATTATGAG	CATGTTTATA	ACAAGATCAG	TAAATGTGGA	CGTCAGCCAT
162601	CCTATTTTGT	TGTTGAATTT	GAAAGAGTGG	ACAACACGAT	TGGATTGTGC	AATTCTGATA
162661	CTGAACATAA	TGGATCATCA	TACATGGAAT	ACAGGTGCTT	TGACACAATC	AGGAAGAATG

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163021 GAGAAAATAC TGCTTCTCTT TCTCAGAAGG AAAATGTTTCG TCTCATGGCG ATGCCAAAGG
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175141	GGAAATGCAT	ACTTTAGTAC	TCTATTTGAA	AAATCCATTA	TAAATAACCA	AGAACTGCT
175201	AATAAAGGTA	ACAATAGAAA	ACGTAAATTT	TCTCGAATCG	GACAAGAAAA	GAGCTCTTTT
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175321	TGTACAAGTT	GCGATCAAAA	TAGTACCAGT	TACATAGAGA	ATGCATTATC	TGACATTAAC
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175681	GCTACTCAAA	ATAAAACCAA	TTTGAATAAA	CTATTAGTTT	CTGCTATCAA	GGAAACAGGA
175741	GCCACTGAAA	CTGAAGCACA	GATATTCAAC	AAGATTATTG	GTAGTGAAAA	GGGACTATCA
175801	ATTCTCTGTC	AACTTGTGGA	AAGGAGGAAC	AAAGACAATA	ATGTCTTCGA	CTGATTTGTC
175861	TAAGAATGCC	TTCCATGACT	GGGTGGTATC	AAAGACAGAT	TGTGAGGTGT	TTGATGTACA
175921	CTGTGAGACG	GACAGAGATT	GTGGCGCTGC	TTGCGAGAAC	ACGTAATCTG	TTGACGGAAA
175981	GGAGGTTACA	AAATTCTCTT	GTAACCAACA	GTCGGGAAGA	TGTGCCAGGA	GTGTTTATAG
176041	TGCGTCTTCT	CTAGAAAGAG	CAGCCAATGA	TCTTGGCCAC	ATTATAGGTA	TCATCAAGAA
176101	AAATCCAAAA	TTGGAGGAAG	AACTCCCTGA	ATCATTTTTG	TGGTTTATCA	ATACAATGG
176161	AGGAGATTTG	TTTGTGAATA	AGCGAGCCGC	GTACTACGAC	ACGATGCATC	TAAGCATAGG
176221	GAAACTGGAT	AATGTGGACA	CTCTTGCCCA	GGGTTTAGAT	AAACGGATGG	CCTCATCATT
176281	GAGAGAGCAC	CTACTGAGGA	AGTTGGACTC	TATACTTTTA	CAAATTGATA	AAGTTAAATA
176341	TGAAAAGGCA	AAGAAATGGA	TATTGGATAT	AACACAGGAG	GCTGGCACC	AAGAGGACAA
176401	TAAAGAAGAA	GAAGATGCGA	AAAAAGAGGA	TCAATCTCTT	AGCGTTAGTG	AAATTGTGGA
176461	TGTTTTAACG	GGCACACATG	ACCCATATGCC	CCTGAGGGCT	AGAGGGTTTA	TCCAGAAAAA
176521	AATATATCCT	TTGTCAAGAA	ACGAATTGAG	AGAATTAGCC	CTTAAGGAAC	TTTCCCTGA
176581	AGAACTACA	TCTCCTCAGG	TTTTGAGTAG	GCAACATGAT	GTATCTACGC	GTGAAGATTT
176641	ATGCAATGAA	AGTATGAATG	CAGGGAGGGC	AGAATCCATT	TTTAGCGACC	CTGATTCTGG
176701	AGAGTACGTG	GCTACTTGTG	CATGTCTTTA	CTCGGAATAT	TTAACAGGGC	CTGCGTGTAA
176761	GCACAAAACA	TACAGGTATG	TTATAGACTA	CGACAAATGG	AAAAGGACTG	GAAGACCTGA
176821	ATTTCTAACT	GATCCTGTAC	TTCAATTTAA	AAAGGCAGAA	GCTGTGTGTA	AATCGACAAA
176881	TCCAACTTG	AGGGCAATTT	ATAGTCCAGA	TAATAAAGGT	TTCTTGTGTG	CGCCTGTAGC
176941	TGAACCTGTA	AAGACGGCAT	TAACTTTTAG	GGGTTTACAC	GAACCGTCTC	TCATTGTGCGA
177001	GAGAGATATA	AATCAAGCTG	AAAATCTACC	ATCCAATTCA	TTTGGTGTAA	ACTGGCCCTA
177061	TGTGAATCTC	CTAAATCGCA	TTCAAGACCA	GTACACGTAA	TTTGATAAAA	AAAGATCGGG
177121	GAAAATGTCT	GCATCTTTAA	TATTGGACGA	ATACCTCAAG	AAGACTGCTT	CAGCCGTTCT
177181	GGATGTAGCT	GACTCATTTG	AGAAAATCAA	GGGAGAAATC	CAATCACCTG	AGGAGGCTGC
177241	GGCTCTTTCT	GTGCTCTCT	ATGGAGCACC	TCCAAAACCT	TCAGCTTCGG	CTGTGGCCTC
177301	TATCATCACT	GGAGAAAGAA	CATCTTTAAA	CGACAAATAT	CTATCGGATA	ATGTCCTATT

177361 GAAAATGTCT GTTGCTCGCG TTGGACAAGA AAATAATCGC AAGAGAGCCG ACCAGGCAGC
177421 TGATGAAATT AGAACCATCA TGGGAAGATAT TACAGGGAGT TTGTCCGGTG CGTACAGGCA
177481 ATATAGCCCG CTCGAGGAAG AAAATAAGGT GCATATAGGC ATCATGAATA ACAAACGCC
177541 TAGCATGTGT TGTGGATATT ATACAATGGA CACATCTATT TCTTCCGAAC CTCTTTCTCT
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177661 TTCAAAGGTC GACTCTGCTA GGTCTACAAG ATTCGACGCT TTTGTTAATG GTGTTGCGAA
177721 TAATATGGAT ATAAAGTCAT CAATAGATTG GGCAAATATG GTAGAAAATG TGATCAAATT
177781 ACCAGATTCT ACACCTAACC CTTGTTCAGT TGACACTATT GTGTCCAGAG ACGCAAGTGT
177841 AGTTAAACA GCAGTTAATG ATATATACGC TTCTGTTGGA AAATCTTATT GTCGTCTCTG
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177961 TGAGGCATC ATGTCCGATA CTAGGGAGAG GGCATTCTGT GAGTTCCTAT TTTACGTTAG
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178141 ATTCGGGCTC TGTTTCATGT TTAAGGTAAT GCCTCCAGAA TTCATGAAC GTATATTTAA
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178381 AGATGCAGTA GCAAATCTCA CCGGACCTGT GTATGTTCTC ATTTTAGATC TTTGACGTAC
178441 TCTAAGTGCG CAGAGATCGT GTTCAACTAA ATTTCTCCGT GAAATTAAGG AAAACTATCT
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178561 AAGAGGTGTT TTGAGGAGGA AGTGGAGGAA GAAAGGCAAC AACCTTTCAC AAAGAAATCT
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179041 AAATCCCCCA AAGAATTTGA CCTCTCCTTT TCCGATTACG TTGATCGCCT TAACAGGATT
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179221 AAGATTAATA TTTGTGTGTT TTGACTAAC TTTATTTGTA CATTGCTAA TGATGATTG
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179761 CAGCAGAAAC ATCCTTCATG TCCTTATCGG AGAGACCATT CTTGATGGCC ACCTTTCCAA
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179881 GGAATCGCAT CATCTGATCA TAATTAGCGA CGACGCTTCT TCCAACACGT GTGTTGAATA
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180061 TCTTCCTTTA CGTGTTGGTT GGATCCAGCT AGTTAGTTCT TCTGTAGCAC CATATACCCA
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180181 GATCTAATTT CAGTAACGAT ACCTCCCACT ACCCTACTT TCATCTCCAT CTCTACCCCC
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183181 GGTTCATATT GTTGGTTATC ATCTTCTTTG TCTTCTGTT CTTCACCTGC TGATCCGCCC
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184321 GCTGAGTGTT TTAGAAAGAG GGTCAATCAT TTTAGCAGAA ATGGACAAGT ACAAAAATGC
184381 ACAACCTACA GTAAATAATT CTCAAGAGAG GAGGAACATT TCTACTCCTC AACACAACA
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184801	CGATTTATTG	TCCATCCTAC	AACAATAAAA	GGATAAAAAA	CAATCGTTCT	AGGCCTGTGA
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184921	GGAAATCTCC	CGCTTCTTCT	TCTTCTTCTT	CAACGTCATC	ATCCACTTCT	TCGTTTTCTT
184981	CAATTTTTTT	GTTTGTACCT	TCTAATTGTA	CTTCTAAAAC	TGTATGCGAT	TTTGTAAAAC
185041	ACATACAGTA	TGAAGAAGAT	ATTAACCGTT	TAAGGTATAA	CATAATACAT	ATATCTGAAG
185101	AAAACATATG	TTCAAGATTT	TCTAAAATTA	ATAGATTAAAC	TACATGTATA	CAAGGTATAA
185161	GTAAGACAA	AAAGATTCTA	TAAAAATCAA	CATTTATTTG	TATCATTTAT	AAAATTCAT
185221	ATTTTTGTAT	CCATTTTCGT	GTCGACGGGT	AGAGATGGTC	TGTAGAAAGA	AGATGCTGCT
185281	CCTTTTAAAA	GGTTATTGGA	CATGGCTATC	ACATACATTT	TCTTATTGTT	TTCCCTATTG
185341	ATGAATTTTG	TCATGACGTT	GCGAGTGCCA	TTTTTTGTTG	CTGGTGTATG	ACAAACGGCA
185401	ACATTACTGT	TGTTCTTAAC	CACCTGAGCA	AACATGGCTG	TAGGGGATTA	TCTTTCTATG
185461	TCCTCTGTAG	GGGAAGCAAC	GCTCGTGGGT	TTTATGATTT	TAAATTTTAT	AAACTTTGTC
185521	ACAATATTAT	CTTTAATAAT	ATATGCCGTG	ACAGACGTTT	ATAGAAGATG	CAAGCGGCCG
185581	TCTACCAATG	GATATTCTGG	TTGTACAACC	AATGTGGTTT	CTTCGACTTT	ACAAGAAGCT
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185761	CAATTCAGAAA	AAGAAACAGA	CAAATTGAAA	AGTGATTATA	AAAAGGGTAA	CAAGGTTGGT
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185881	CTGATTAGTA	GAGATGATGT	GAAGGACAAA	AGTTATGTCT	TTAAGAGATT	GAGCAAAGAT
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186001	GCAAAAAAAT	TCATGACATC	AACACAGTTG	GGGAGTAAGC	TCGTGTATCC	TCACCCTATA
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186121	GATAATGAGG	ATCTACACAC	TTGGAACCCA	CCCTCTTCTT	CTGTGCTCGT	CCCAGACTCT
186181	AATAATGATA	GATTAACAGT	AGAAATGTGCT	AAAACGGACC	CAACACATAG	AATCGGCATC
186241	TACGGCTTTG	GAGGGTCTGA	TGATAATAGA	CGTGCAAAAG	AAGAAGGTTA	TGTAGAAATG
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186361	TCTACAAATC	CAACTGAAAT	TCAAGTAGAT	GTTGCTGCAA	AACGTGTTTT	ATTCCCTGCC
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186481	GCTACTGGCG	AGCACGATAT	TTCCCATGAG	CCCGTGAAGC	TATCAGATAC	GGGTGACTAT
186541	GCAGTTGGAT	CACCCATTGT	ATTCAAGCCA	GTTTATGGTA	CATCTTTAGT	AAATCTTCCA
186601	GAAACAGGAT	CTCCTCTGGC	ATTGAAGTGC	CCCTGCACCG	ACAAGGCTGA	TGGAATTATAT
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187021	CAGATTGCAC	CAGAAATGAC	AGAGCTCCAG	AAACGTACAT	TAACCTTATA	CTGTTCTTGG
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187201	GAGTTTAGAG	GGTGGACCGC	TGGGTGCGTC	TAATGTCAAG	TTGCGAGGGT	GGACCTCTGG
187261	GTCGAGCCAA	TGTCAGATTG	CACCAGAAAT	GACAGAGCTC	CAGAAACGTA	CATTAACCTCT
187321	ATACTGTTTC	TGGAACATGT	ATTTCTGGGC	ACGGACGCAC	CCAGAAAGGT	GAGGCTGTTA
187381	ACACCCTTAA	TCCACTAGAG	AATTTTACTC	TTCTTCCATC	TCAAAAACTT	TTCAAAAAAT
187441	TTTCTGGGTC	ACTCGAGTTT	AGAGGGTGGA	CCGCTGGGTC	GGCCGAATGT	GAGCTTCCGA
187501	GGGTGGACCG	CTGGGTCGAG	CCAATGTCCAG	ATTACACCAG	AAACACCAGA	GCTCCAGAAA
187561	CGTACATTAA	CTTTTACGTG	TTTCTGGAAC	ATGTGTTTCT	GGAGACTGAC	GCACCCAGAA
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187681	CTTTTCAAAA	ATTTTCTGCG	GTCGCTCGAG	TTTAGAGGGT	GGACCGCTGG	GTCGGTCTGA
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187801	AGAGCTACAG	AAACGTACAT	TAACCTTTTAC	GTGTTTCTGG	AATAGACGTT	TCTGGTCATG
187861	GACGCACCCA	GAAAGGGAAG	GGTGTAACCT	ACTGTTTTTC	CTAGAGAATT	TTACTCTTCC
187921	TCCATCTCAA	AAACTTTTCA	AAATTTTTC	TGGGTGCTCT	GAGTTTAGGG	GGTGGACCGC
187981	TCACTCGGTC	TAATGTCAAG	TTGCGAGGGT	GGACCGCTGG	GTCGAGCCAA	TGTCAGATTA
188041	CACCAGAAAC	GTTTGTGTGCT	CCAGAAACGA	TAACACACAT	TTCTGGAGCA	GTAGTTAGTT
188101	ATTTCTGGAG	CACGTTAAAA	TAAGTAGGGA	GAATAATACA	TAACATTATA	TTTTCAATTC
188161	CATTTTATTG	GTTCTATCCA	TCTAAAGGTG	TTAGAGGAAA	TACTTTTATT	GATAGTATAAG
188221	AATCCTTACT	GAAATTTTTTC	AAATCATCCA	AAGAGAATAC	AATCTTTCCA	GTATAACTTA
188281	GAGGGTTTCT	TGGTGTAGCT	GTTTTCTGTT	CCCTGGCGAG	ACGGTACTTA	TTATTGCTTC

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188821 CCCATCTTGC CAATAGTAAA TATACTGCTC TGTCGAAAT GTTCGTTATT GAAGGATTGG
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192181	TCGTCAAGCA	GAAAAATATA	TCCCCTTGG	AATACTTGAA	AATAAAGCAG	GGTATGGTGT
192241	AATAAACATT	GCCAAGCACA	ACATCAGCCG	TCCAGCAAGA	GAACAATCCA	ACGGAAGGAA
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192481	TGACAGGCAA	GGTCTGACTA	CTTCATTCCC	TAGTAGTGAA	GCGGAATACA	AGAAGAGAAT
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192721	AAATATCGAT	GAACCTAATC	TTTTCTGCTC	AACTACAAGT	CAGCTAGAAT	TGTTGCTTAG
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193141	GGATATCGGG	CCATCCAGCC	TGATCGCCTC	ATCTGAATTC	TTGAGCAACT	ACGTCAACGC
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193261	AAATATAAAT	TATATATCAT	GCAATTTTAT	TTATACCTTT	TTTTGTATGT	GATACAATAT
193321	TTTTAGTGTT	ATGACAGTGC	AACCATTATA	TTATTATCTG	TAATAGGTCT	TGGTAAATTT
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193441	TCAACACCTT	CCTCAAAGTT	ATAGAAGAAA	CTTGTTTCAT	CATTTTTTAT	AGCAATAAAC
193501	AAGTACGTTT	TTTCCTTAGC	TGTGCTTGCA	GAGCTTATCC	AATAGTCTGA	TGCCTTTTTA
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194221	GGGATTGAAA	CTTTTCCATC	TGTTATTTTA	TCCTTTATTA	ACCATACGTT	TTCTGATTTG
194281	TATGTGTCAA	ATTCTTGATC	TGCTAATTTG	GTGAAGAATT	CATCCTCAGC	TTTTTCAAGA
194341	GTTCTTGCAA	AATGCTCTCT	CGTTTGACGT	TGAAGCGCTG	TCTCATTGAT	AACATCAACT
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194521	GTTCCCTTCC	CTACGCCCGA	GATAGCAAAG	AAGAGGGCAA	TAGAAGCTCC	TATTACCAAA
194581	ACAATAACCG	CAAAAACAAT	GTATATTCCT	CCATTGTTTG	AAAGTGCCAT	TTTTAAACCC
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195361	ATAGGCAATT	GCACCTAAGC	GATACTTTAA	TTGGTCACTC	TTTCTTGTGA	TCCAAGAATT
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195481	AGGCTCATCT	CCGTTAGACG	ACATTATTTA	CTCCTCCTTA	AAAGCAGTGA	TTGCAAACAA
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203161 TGTCAGGACC TTTGTTTCAG CAAAACCTTT CCCCTTGTAC TGGATAAAAG TTCTCAAGGG
203221 ACGGCCAACT ATTCTACCCT CATGGCCTGT ATTTGCCAAA ACACTGCCCT TTCTTGCTT
203281 CTTTTCCGAA GAATTGACAA CTTTCTTGTA GAAGTTAAAC CAAAACGAGC AATCACTTCC
203341 TTCATGTTTC AATTGGTCTT CAGAAATTTT ATTGGTCTGG TTAGCTTCAT TATTATTATT
203401 AGAGAGAAGG TGACCTGATG AGGATGATCC ACCCCACAC CCACCATTTT CTCCCTCGCC
203461 AACAGAAGAC ATGTAATCGC CAGGACATAT GATGTTTATA TCATAAACGC TTCCAGTATC
203521 AGTCAAAATCG CGGCACTCTT TTCTTATCTT GTTAGTTTCT TCCTCAACTG CTTTATCCA
203581 CCTTTCAATT GCATCCATT CAGCACTTAA CGCAGTTTCA GTGACACCGT ACAAAGCATA
203641 CTCCTTTTTC GAGAAAGGAA CACAAATCTT AAAAAAGTTC TCAATGTCAG AAATTACTTT
203701 CACAATGTCA TTATTTATCT GATTTTGTGT GATCATGTTT TTAATTCGGT TAAGTACATA
203761 GCCATCGTAC GAAAAACAAG CACTTTCTCT GTCTTCTTCG TTTCTGGCGT CCATGTGTAT
203821 CTGGCTGAAA CCCGTGCGGG ATCTCGAGTC CTCATCAACT ACGGATGATG ATCCCCGACT
203881 AGAATCATCA TTGTAAAAAC CACCCGCGTT ATTAACACCT CCTCCGCCAG ATTTCTTTGA
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204001 GTTAATCTCT TCTAGAGAAG GATCGATAAA TGCTTCTTCG TTAGCGTCCA TTACTTTAGC
204061 TTGACCGGCA GGAATGTTGT GGAAAGAAAT GTTAGTGTG ATGATTCTAG AGGACTTTTC
204121 TACAGCAGCG AGTTGGGCGC TTGTACAGGA ATTACTAACC AGATTGTAGT TAGTATCGAT
204181 TCTAGTCTCT TGCAGTTCTT GGCGAGTCTT GGCGCGGAAC TCGTCCAAAG ATTTAACT
204241 GACATCATTA ACGTCCAAAA TACAACAATC CAACAAATCA TTTGAAGAAG CACGCACAGA
204301 GTCTGCCGCT TTTACTAAAA CAAGCCTTGC AATACGTTTC ATTACCTTCC CAACACGTTT
204361 TTCATACATA TCATTGCTTT TTTGCTATT TTTGTGCGCC AAAGAGGAAA CACTAACCAC
204421 ATTCTTAACT AGTGAAAGGG GCCTAGAAAG AAGCCTGCTT CGCCGTCCCA TTAGGACGTG
204481 AGAAAATCTA TAGGTGATAA ATTGCAACCA ATTACTAGTA TCAAAATCCAT TAAAATCAAA
204541 CGACATGAGA ATCTTTCGGG TCATTTCTTC AATGACAATA TCATTACTTG CAACTTGTCC
204601 AATAACATAT GCGGCAAAAC GGTAAGAGTG GAGAGGATCT TCTTCAATAT CGTAAATCT
204661 ACCTTCTTTT ATGCTAGCGT CGGCCTTTT GGGAGAATCT CCCTTGCGTG TACAGCTGCA
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204961 CCAAATTTGA TGCCTAACAT CATTGCTAGG GGTGGGTTT ATCTTCAATT TCTTAATTAC
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205141 ATTCAAAAGA CATTCCCACG TATCAGCATC CAAATTTGTG TCCAGATCTT TACCAAAAAA
205201 TGCCCTCGCG CTAACGCCCCA GAAATTCTGA TAGCTCAAAT ACGGCGCCAG ATTCGTCCAC
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205741 TACACCATCA CCTCCCGATG AACATGCCAA TCTGGCTAAA CTTCTAGGTC TAAACGTGTT
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206161 AGGGATATTG TTGTTGCTGT TAGCGGTTCC GTCTTCACTA TTGACATTAG GCTTGACAAAT
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206281 AATTTCTTTC AAAATATCAC CAGATTGAGC TGCAGAAATG TCCAATGTTA GTACATCACA
206341 CAAATTTTTC TCCATTTCTT CCACAATGAC AGTTGAAACA TACTTTTGGC GATGACATAA
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206461 GTTATTAATA CTACTAGCAT TGTCAGATGG TACATTTTCA TCATCACTAG AACCAAATTC
206521 GCCTAGAAAA CCATAACAAT CATCTTCATC ATCACCACCA TAATAATCAC CTGTTGCACC
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206641	TTCGTTACTG	GCCACATTGT	TCAGGATCTG	GCGAGCAGAA	ACGTCGTCGT	TGTCACATTT
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206761	CAAAACAGCT	TCCTTATCAG	ACTTGACGCT	GGCAAAAAGT	CGTTGGAAAG	TCTCCATGGG
206821	GGCGCATTCA	TACATTGGTC	CAAAAGACTT	GTCAGATTCA	TCATAATCAA	ACGTTTTTAAA
206881	TGTATCGTTG	TTCAATTCTG	AGACCATTGT	GCTTTCATCA	TACTTAATTT	TGCACAATTT
206941	GCTGTTTGTC	TTGTTCTTGA	TCCTCTCCAT	GGAATTTTCG	TATGCTGCAA	CTCCCATTCT
207001	GCAGACAGAT	TGCTTTTCAA	GCACACTTTT	GGGTACATAT	ATGCTAAGTT	CTCGGTAAAT
207061	TGCGTCGCAC	ATGTGTCTAA	ACTTCTCAAA	ACCTCCTTCA	AATTCAAAAT	CTTCACGAAT
207121	TATTTGCTGA	TAGTACTCTT	CTGGATGAGA	AGTGATGTTG	TACAGCGCAC	AAAACCGCTC
207181	AGCAAGAGTA	ACGACTGTCC	ACGCGAATAT	GGTGTCGTTT	TTGTCAGCAC	CCGTGGCGAA
207241	TGTTGACGTG	ATGATGGACA	AGAGCTTCTT	GATATTTTCC	AAAGAAGCTA	TCTGGTTTTT
207301	ATCAGATGAC	GAAGTGGATG	TTGCACCTTC	TTCTAGACTA	GAAACCATAT	CTGGTGTTGT
207361	TGATGATGTT	GATGCAGCAG	CAGCAGCAGC	AGCTTCTTCT	TCACTTTGAG	TAGGTGGAGG
207421	AGGAATACTC	TCCAATTCTT	CAATTGTAGG	AGGTTTTAGT	GATTCTTTGT	GGGTAAATTG
207481	CCACATTTCT	GCAAATTTGC	CCTTTGATAG	TGCATCCCAT	GTGTTATTCT	TGAGTCTTTG
207541	TTGTAGAATG	TCCGTATCTC	TGGGCAATTT	CAGGTTTCTG	TTCTCATATC	TCACAACAAT
207601	TTGAAGGATG	GCGAAAGGCA	TGATTGTGTC	AAACTTGATG	GTGTTAACGC	CAGTCAAATT
207661	CCTGATAATG	TTCTTTGTTT	CTGGTTTCAC	GCGTTCAACA	CAATTCCTTCT	TGCTCATGGC
207721	TTTCTGGGGA	AGAAGAAACT	CCATTGCCAG	AAGAGGAGAG	TTGTCAATGT	CACTCAGAAA
207781	GAAACCGTGT	TTTCTCTTGA	AGAAACACAC	AATCTGGTCA	AGCTTATCAT	CGTCATTGAT
207841	GATGCTATTA	TAGACATTGG	CAGCAAGGGG	AGGGATTGTG	TTAGGGGCTG	GAGGAGGCTT
207901	GTTGATGTTG	TTCTCGTCTC	CAGAACCGCC	GCCAGATTTT	CCTCCAGATC	CTCCTTCCTC
207961	ATTATCTTCT	TCCTCGTCGT	CTCCATCTCC	AGAATCGTCC	AATCCTTTAC	ACGCCATCTT
208021	CTCCTTTAAT	AGGGTAGCAT	TTGTCTTGGT	CAATAACAAG	CCACCTCCTT	CTGCCAGAAA
208081	CTTGTAACAC	ATGCCAATTG	TACAGAAATC	TTGATCCATA	ATCAAACCTT	TGTTTTCTGTA
208141	AGGCATTTCT	GGCCCAAGTT	CAGAAAAAAG	GATCTTTCTT	CTCCAATCGT	CGGTATTGGC
208201	CATAGAACCC	ATGAGGTTTT	CGAGATATAG	ACACTTTTTT	TCGAAACTTT	CCAGTGTTTT
208261	GCACATCCAC	TCTTCGGCTC	TATCTGCCTT	CACGACACCC	AGAGAAGTCA	CCATGTTTTT
208321	GTTGCTGATG	GAGAGAATGT	TCTTCTTTTT	TCCCACCAAC	TGCGCATGGT	GATAGGGGAA
208381	CGCAGTGTCG	CTCACTTTAC	AATGTCGGGG	AAGATTCCAG	TTATCACTCC	CGCCAATATC
208441	AATCTTGAAA	CAGGCAACAG	TTTTCTTGAT	CATACTTTCA	ACACGTTTCA	CGATTCTGGG
208501	CATACATTCA	CTCAGTAATT	CAAGTTGTAC	CTTTAAGATT	GACTTTAACA	ACACCACATT
208561	TTCTGTGTCT	GAAACAGCTG	CAAGACGTTT	CTCTTCAAGG	ATGGTTGGGT	AGAATATTAC
208621	CTTGAGCCCC	ATCAAAGAGG	CATTGGTGAT	GAAGGCAACC	TTAAACACTG	GCACGTCTGT
208681	TGCTGTTCTT	CCACAACCCA	GAAACTCTCT	GAAGGCAGGA	GTCACACATA	GTTTCTCTGC
208741	ACTAGAAGTT	TCTTCCTCAT	AAAGCCTCAT	CATAATAATA	AGTTCCCTGA	GAAGCTTTCC
208801	AGTTCCAACG	TGGGGTCCTT	CTTCATCCAT	GCGCCTATTT	TCATTCTGGC	AAGAACGCTC
208861	ATTAGCTTGT	TCCAGAAATT	GATCACCAGT	AATTTCTGGA	ACCTTTTTTA	CTTTGTATAC
208921	GCCTTTCTCT	TTGGATTTTG	CAACATCCTT	TAAAGTTGCA	GGTTGACTGT	ACATTATCAA
208981	TTTTCCATCG	TTTCCTCTGT	TCACTGTGTC	ATATTCAACA	ACATTACATC	CAGCATACAG
209041	AAGATTGTTG	GGGTTGACAC	TGCCGTCTCC	GCCGACTCTA	TCTTGACAG	CTAGATGCCC
209101	CATTTGTTTG	ACCAGAGGGT	TGCCATTCTT	GGTCAAGTTA	TCAGTGACTA	GAATTTGTTT
209161	CCCTTCGTTG	AGAAGGAGAA	GAGGTAGACG	TCTGTTGTCG	TACTCGGGCA	GTTTGTTGGA
209221	GAGACAGATG	CGTAGAGTCG	TTGGTTCCCT	TTTCATCTGG	TTGGCACATT	TTATTAAGTG
209281	ATCTCGCACA	TCACTTTCAA	GAAACTTGCC	TCCTCCTAGG	TTGAGCACAT	TTGCCTTAAA
209341	CATATTGACG	AGTGCAGTGT	GCTGGTTATA	AGTTTTGTTT	TTTCTTGTTT	AGTTATTTTT
209401	CTGAATGTAG	GATAAAATAA	CGTAACTTTT	CTTGTTGTCG	TGTTACCAA	GGAATCTTTT
209461	GATATCAATT	ACAGCTACAA	CTGGTAAGGG	GGTTGTCCGA	CGACCGTCTG	TATCCTACGG
209521	TATCCAGTGT	CGGACTGTGA	GCGAGAGAGC	TTGTGAGGGC	GTATTTATAC	AAGAATAGCA
209581	GCTGGTGCCA	ACTAGTGATT	TTATAGAACA	GAAATCATGG	ACCAGTACCC	AGAAGTGAGG
209641	GATACTCCTC	AGACAGAACA	GGAACAGGCG	GCGGCGCAAC	AACAACAAGC	AGCAACAACA
209701	ACAGCTGCCG	CTGCTGCTGC	CGCTGCTCCT	ACGCAGTACA	GTAACACTGT	TTCTGCAGAA
209761	ACTTTATCCG	CCATTTCTGA	AGATGGAAAA	TTGGAGAGGT	CAATCGCAGC	TTCTGCTGG
209821	ATCAATAACC	TTAACCCTGA	TGAAAAAATG	GCTCAACGTG	TCCAATTCCA	TCCACTTAGT
209881	TCCACGACCA	CATACGATTC	AGAAAATGTG	AACCCTGGTA	GTTCTGTTGT	GTTTTTGAAG
209941	CCTAGAGCCC	TCCCCACCGG	GGGCACGTGT	TTAGCCCCCA	ACTACATTGC	AGTGCCTACT
210001	CTTCGTGCTG	CGTCAGAAAT	TATCGATTCT	ATTGCATCAA	CTAGTCTATA	CCAATGTTCA
210061	ATGTTCAATT	CGTGGAATCT	TATTTCCATT	TTTATGAGTA	ATAGCAAACA	TAGTCAATTC
210121	GGTGATCGTG	TCATCAAGAG	ATCAATGATC	CGTAATTGTT	TTTCCAAACA	AAAAAATGTA
210181	GAAAATCTTT	TAAAGGAATT	GCGCAGGAGA	AAGGTTAACG	CCGCCAAGGC	ATTTTCTCAT
210241	GCAGTTCAAC	AGAAATCAGC	AGTAAATACT	GCCCTTGCG	CATGGAACGC	GGGAAGTGCT

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210661 GATTCAAGTGC CAAATATCGG TATGTTGGCT CCACGATCAA AATATTCTGT CGCAGAGTAC
210721 TTGATGGCAG ACAGAGACGA GTCTGCAGAT ATCGCTGCTA AGATAGGGAC AAAGATTGCA
210781 ACAGATTTTG AAGCATTGAG AGGAGATAAT AATAAGAGAA GAGCAGATAC TTCAGTCGAT
210841 GATCTCAAAG AATCACTAGC GGATTCTATT GAAAAAACTT CCATTAAAAA TACCGGCGAT
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210961 ACACAGCTTT TCGCGCAGGC ATTTTTGGAA ACTATGGGAA GTTTATTGAG CTGTGCTTTC
211021 GGTGTACAGT TCCCCTTCTC AGATGAAGGT TTTGCGGCTA TCGAAAGGAT TATACGTAAA
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211321 ACCGTGTTGA GAGACGCCAC GCAAACGTC TCAACTTCCA CCCCTTCTCA AAGAAGAGTC
211381 CCCACCGCCG CAGGTGAACC AAAAAAGCCA ATGCTCTCTG GTTGCCTACC TATCATCAGG
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211621 AAGAAGGGAG GAAAGTATAC AGAGGAGGAA AAGCGAATCA AGAAGGCTAT GCGTAGGAAT
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211981 GGAAGATTTG CCGACTTTTT GAGTGACAAC TCTGCTGCCA GGAACGCTTG GCAACAGTAC
212041 GCAGAAGTAA TGAGAGGACT TTCTAAGCAT GAGAAACGCG TATTCAACAT TGAAGGTCTT
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213781 CCCATTCCCT CTTCAAGTAT TTCTTCAAGT GGTCTTTTCA AAATTGATAG GGAATGTTC
213841 GATAATATGA AGACAGATTA TGTAAGTGAA GTAATTAGAC AGCTATCTAA GAATGCTACC
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213961 ATTTATAACA AGGATGTTGC ATCAACCACT GCAGCTCCCG GAACTTCTTC CTCCGCTTTA
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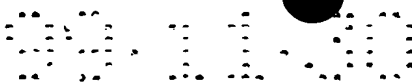
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244261 CTTTCGGTCG TGTCGGCCAT CCTCGCCATC ACTGCTGTGA TTGCTGTATT TATTGTGATT
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244561 GCACTCGAAG TGACTGTGGG GCAGAATCTC ACCTTTGAGG GAACATTCAA GGTGTGGAAC
244621 AACACATCAA GAAAGATCAA CATCACTGGT ATGCAGATGG TGCCAAAGAT TAACCCATCA
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244801 GGAAATCTTT TCGACATGTA CGTGCACGTC ACCTACTCTG GCACTGAGAC CGAGTAAATA
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245401 CCGGATTAC TAATCCTTGT TGAGACAACC GAGTGACAAT ATTTACAATT TCTACCAAAA
245461 CAAAGGGCAA TTGGTTTAA ATTCTCTCCC TCATTTTTCC AACGATAGT ATGGCTGAAA
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250681	AAATACACAA	AAAGCACTGT	CATACAATAT	AGAGGAAAGT	TTAGAAGGTA	TTTAATATTC
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250801	TTTAATTTCT	TTAACCTTTT	CTCCTTCATG	TATTGTCATG	GTCCGTTTCT	CCATCCCGCC
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250921	GCCCCATCCG	TCTCAGCCAA	GCGGCTCATG	GATATCGATT	CCGCCCTAAT	GAAAGGAGGA
250981	AAGGGGGTGG	GTGTGAGGGA	TTTTGGTTCA	CCTTCAAAAA	CAAGTCTCCA	TACAAGAACA
251041	TTGGTGTCTT	TCTTAGGTTT	TGCTGAAATG	GCTATGGGAA	CAATGACGGC	TCTCTTATCT
251101	GGTGTAGAAG	TGCGTGTATC	TCCAGCTCTC	CAACAAAGGA	TATCTAAATC	CCTAGAAAGA
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251221	GCGAAAAAAG	TATCACTCGA	ATCGGCGCTT	CGCCTCATCA	TGGGGCAGAC	GCACGCCAC
251281	ACAAATAAGG	TGAGGGCCGC	CAAGAGATGC	CGAATAGAAG	CAGCGGAAAT	GGAAGGTGTG
251341	GAAGAAGAAG	AGGCGGGCCT	GACACTCTCT	TATGCCCATC	TATTGGGTCT	TCCTTACTCT
251401	ATACAAAAAG	CCCTCGGATT	ACCTGTCCCT	AAGATAAACC	CTCTCATGAC	AGCATCTTCT
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251521	TTTCCAGCCG	AAGGAGAAAC	CGCAGGATTT	CTCGGCATGT	TTGATAATCT	AGTGAAAGAT
251581	TCTATTGACA	AATACTACGG	CGAAGGAGCC	TTTTTCAGACG	TGGTTGAAAA	TGTAAAACAA
251641	GCACCTGGAAC	AAAACACACC	GTATGACACA	CTTTCAGCGT	TGATGACACC	TATCCCTAAA
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251761	TATAGATTGA	ATAGAGACGT	GGAGGAATAT	TTAATGGCTT	CTCCTATGAA	GATGGTGTTC
251821	GTGTCTATAC	TCGATAAAAC	TAACCAAAAA	GAACGTTTCA	TGTCTGTTGG	GGATATTGCC
251881	CTTCTGGCCG	TGTGGTGCAA	AAGGAACGTA	CTGAAAAAGG	ATTGGAACGA	ATACGCTATC
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252001	TTAGTGAATT	TTGGAATATT	AGGTGACTTG	AAAATAACCA	ATAAACTTGA	CACAAATACC
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252121	AAAAACACAT	CCCTATCTGA	TCGAAAACAA	TTGGCCCTTG	TTCACTCGTG	CGTTAACGTG
252181	AGCACCCGAA	CCCACGTAGG	AAGAGTGAAT	GCAACATCAT	GGGCTGTCGA	TGCGCTTCGT
252241	ACCTATACAA	GAGGTGATAA	AGACATGTTT	GCCGCCCTAT	CTTCATCGCT	GGATATGTAC
252301	CATCTTGGGC	ACACGAATTC	AGCTAATTTT	GTTCCATATT	TTAGTAGAAA	TTACCTATGT
252361	AACGAACAAG	AGAATGGATT	GTGGGGGTAT	ACTCGCAGAA	CCTCTGAAAA	ATTGGCCAAA
252421	GAAGAATTGG	GAAGAGGACG	TTTAGGGGGC	CTGAATAAGG	TAGGGGTGGC	TAAACAGAA
252481	CTGGCTGCTG	CAGCCATTGC	AATTTCTTCT	GCCTTAGATA	TGGGGGAAGT	AGAAGCTGTA
252541	ATGGACGACT	CTTCTAAAGT	GAGAAAAATA	GCCCTCCACCT	GCTTAAATGT	TAAATGCAGC
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252661	ACTAATGCAC	CAGCAGCTGG	TTCATCCAGA	AACAGTAACA	GGTTTCTCCT	CAAAGATTTG
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252781	GTACTATGTC	CCAATACAGG	ATTTCTTCAT	GCTGCTGTTT	CTGATTTTGT	TATTGAGTAT
252841	TCCTTCGAAA	GTGAAACCTC	TATAGTGAGA	TTACGTTTGA	GACTGATTAA	ACCTGAAAAA
252901	CAAGACGAAA	TGGTATGCCC	TTCAACAGCT	CCCGAAGCTA	ATAAGAAGAG	GAAATTAGTA
252961	AGGAATAATC	AAGACGCTGT	ACTGACGTTG	GATGATGAAG	ATAACATCGT	TAAATACAAC
253021	AAATATGATA	TGGTTGAAGA	CGAGGAAGCG	CGTGAAAGAT	TACGCCACCA	GGACAAACAA
253081	TCGGTTATTG	CAGCCCGTAT	CAGTAAAGTG	TGTGAGCGGA	AAAATCCAAA	GAAAAAACGT
253141	CGTTTAGAAG	ACCCTGAATT	GCAAAGTGTG	GATGAACAAT	TGATACGGGA	ACTGGCTGCC
253201	ATTGCCTACT	GACGAGATCT	AAGATTTTGT	AATATATTAT	GTGCTTTGCA	GACCTAATAT
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253321	AGAAACTGCG	GTGAAACTTG	TACGATGGTA	TACAGAGTAC	GATTGTTGTT	GCCCATTGGT
253381	TAACCGCGTG	GAGCGCCTTC	TAGGATCGTT	CGGAGGAGGC	GTGGACGCCA	CGTCTGTGCG
253441	AAGCCGACCG	GCTCTTTATG	AAGAAGATAA	GAAGGGAGAT	AAATGCATAC	CCTTTAGGAT
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253621	TTTTGATGTC	TCTTCAATGA	CCATATGGAT	TGATGGCAAT	AATAGTAAAA	AGTATGAAGT
253681	TACATGCCCC	TCATGCACTG	TCGAGAAAAAT	TAGTGGAGGT	GCCGAATCTA	TTCACAAGAA
253741	ACCCATGTCT	CTTCTTGCC	TCTTTAACAA	TCTGGTAGAG	AAAGAAGCCT	TCGCCGAAAG
253801	AATTGAACTC	AAGAAATTGT	ACCTCTCCTT	ACTAACGGGC	TCGGCAGCCG	GAGGAGGAGG
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253921	CCACACATCT	AAAAAGGACA	AGACTCGTTT	AGAGGCTGAA	GTTTTAGTCA	GTAACAAGAT
253981	AAAACACACA	TCAAGATTGC	AGCCTAGGTG	CGTCTGTTCC	GATCTGTTAT	ATGCCCTATG
254041	CTCCACCACT	AACAACCTCTG	CATCTTACGC	GTACAAGGCA	AGAAATTTGT	GTGTTATTGA
254101	AGGTGGGGAA	TTTTTATATT	TTAAATACAC	AATCTTTGAA	GAGAATGGAC	CTTTCGACTC
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254221	ACTGGCCGCT	TCTTCTTCCT	CTTTAGAAGA	CGACGATGAT	TGTTGTGATG	ATGATGACGA
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254341	ACAAAAAACA	ACAACATCAA	CACTTCCACC	TATCAGCAAA	ACCAATCACG	ACAACATGTT
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254461	AGGAAAAAAG	GGCCAACACT	CTAAAAAATT	GAAAACCTCC	GCTGCTGCTG	GTGGTGGTGC
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255361	GGAATATTTT	TAGACACCGG	TTCGGCAATC	TTCGAAGACA	ACATGTTCAA	CGGAGGAGGT
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255661	TGCGTTAATG	TTGTCATGTC	AGAGACCAAT	GCTTCGTCCA	TCTACTTGAT	CATAAACGAC
255721	CCCACTGGTT	CGGGATGGAA	AATTATGCCT	AACAATTTCA	ATAAAACACT	TGAAATGAGA
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255841	TCCTTGATTA	AAAGGGGCAT	GGATTTAGTG	GATATGCAAA	GAACATATAAG	GTCTATGGAT
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256381	CTAGTGAAAC	TCCACAAATA	TGATTGGACA	AATAAAACTA	CAAAGGTTGA	TTATTTTGAT
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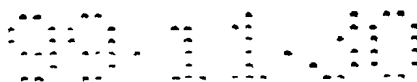
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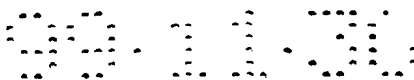
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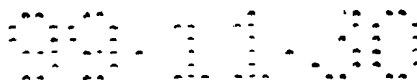
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298981 AGCAATGATT GCAATGATCA ATATTAATAG TAGCGAATTA ATTAATAATA GCATTTTGTC
299041 CACATTCTGG CTAATAATAA AAAGTTTATC TCTCAATGAA AAATTTTTAT TGACCAATCA
299101 CTTGGGGAAG TTTTGCAGCA TGACACACTA TTACTCCAAA ACTATGCTCA CTCGTATCTA
299161 GTCCCAACAAC ATCAGCGCTC ATATTTAAAA CATTGCACCTT TAAAGCCTGT TTTTCTTAT
299221 ACAATTCTGT ATTGATTATA GGGTTTACAA CTTTAGGCC TTCCTTTAGA GATACTATTT
299281 TCATGTATTT TACAATCGAA TATGAGTTGT CTTGTGCACC AGACGGGAGC CTGTCATGAA
299341 ACTCTACTTC TCTCCACGT GTATTGAGCG AGAGATCATT AAGCACAAC TCTGAAGAAA
299401 CGAGAGGTTG TAAAATAGAG TTATATTTAG GTTTAATTAG GAAACATTTG TGGAACTTG
299461 AACTGTTAAT ATCAATAGAA ACTGAGCTAT ATGCTGACGA CATGGCTTGC ATTTTCAAAT
299521 CATGTTCAAA TCTTACTACA TAACCCAAGA AATTATAATC TGCTTCTTCA CCATCATCTT
299581 CTTCCATGGC ATCCTCTCCT CTTGGCTCTT TTAGTACAAT TTCTTTTGGT TGGTTAGTCA
299641 TGTTGTATAT GTTCATTGAG CTATGATTTT CCACAACATC ATATCTAATG ACACCGACTG
299701 GGATAATGCA TGCACCGACA GAGGTGTAGA ATAATCCTCC ATATCTAATG ACACCGACTG
299761 CGGTAGCGTT CTCTTCATCA TAGTAACCGA GCTTGATTTT CACATGACTC ATGGGTCCGA
299821 TAGAGATATT GGAAGCCGGT TCAGTAGCGG AAAAATAGA CACTTGTTGG AACATTTTGT
299881 CGTCAGGAAG AGTCTCGAAT AAAATACCGA CAGGGGAATT ATCTTCAACA CTATTAAAGT
299941 TTGTTGCATA AGATAGCCGC CCTGAACCTAC TTGTATTATA AATTGTTATA TCGGATGCTA
300001 TTTTCAAGCA AAGATCTCCT ATAAAATTGT GATTAGGGCA GACCAACATC CCGTCTCCAG
300061 TGTAAGACGA TACATGAAGT CCTGGTCCAG TTGGCAGGAA AATGGCAGCC GTTCGTGAAG
300121 GATTTCTCAC GTCAACTCGT CACCTCTTCA CTGGTACTTT TCCAAATCGT CGTGGATCTA
300181 CATTGAAACT AAAATCTCTT TCGTGGGGAT CACTTCCATC CTTTAAAGAG AAGAGAGGCA
300241 CTCTGTAAAC AGGAGACCAA TCTGAATAGT ACCTTAAAGC TGTTCTATTT TTTTCTTCTA
300301 GAGTGGGTAC CGCTCTGCGG TGCATTGCGT ACACCTCCAA ATCCGTTTCC TTTACTTGAA
300361 TCGATTTTGC TCCTTCATTT TCCCAGAGCG CATCAGAATC GTACCTGTCTG TCGAACGAAT
300421 CTTACCTCC CATTTTATTT ATTTTCTCTT ATATGATAAA AACCACACTC AAAATGTCTA
300481 ATATTTTACT AACTTGAAAA AATGGCGTAC ATTGACCAAG GGGCGTTTGG AGCCAAATCT
300541 GTGATGCAGC AACAATACCT TCTTCCACCC TCTAATAGGC TCTCCAAACA ACAACCTCCA
300601 CTGGCATCAT CTCTCTTCA ACCTTCTCTT TCTAATAAAC CTAGGAGTAC ATCAAGAGTA
300661 ACAGACATAT TTGTTGTGAT AACTTGTGTT GTTTTAATTG CTGCTTTTAT AAGCAACTCA
300721 TTTAGTGTTA CAAAAATGT GGTAAACTT TCTAAAGAAC AAACCGAGAA AATACTAGAA
300781 AAAGATTTGC CTGATAAGGT GTACAAATTG TTTGAAAATT TAAAGGATGG AACATTTGGT
300841 ATAGGGGAAG ATGAGGAGGA AGAAAGGGAG GAGAGGGAGG AAGGGGAGGA AGAGCTTGAA
300901 ACAAAAAACA TAAGACTTAA AAGAAAGTGG AAAGAAATGA CTGAACAAGG GGATCAAGGA
300961 ATAAAAGTAA GGAAATTACA TGGCCCGAGA GGAGAAAGAG GAGAAACTGG TCCAGCAGGA
301021 GCAGTTGGCC CTGCAGGCC TCAAGGAGAA AGAGGAGCAA TTGGACCGGC AGGAAAGGAT
301081 GGAGCAGTTG GCCCTGCAGG CCCTCAAGGA GAAAGAGGAG CAATTGGACC GGCAGGAAAG
301141 GATGGAGCAG TTGGCCCTCA AGGCCCTCCA GGAGAAAGAG GAGAAAATGG ACGCCAGGA
301201 AGAGATGGAG CAGTTGGCCC TCAAGGAGAA AGAGGAGCAA TTGGACCGGC AGGAAAGGAT
301261 GGAGCAGTTG GCCCTCAAGG AGAAAGAGGA GCAATTGGAC CGGCAGGAAA GGATGGAGCA
301321 GTTGGCCCTG CAGGCCCTCA AGGAGAAAGA GGAGAAAATG GACGCCAGG AAGAGATGGA
301381 GCAGTTGGCC CTGCAGGCC TCCAGGAGAA AGAGGAGCAA TTGGACCGGC AGGAAAGGAT
301441 GGAGCAGTTG GCCCTGCAGG CCCTCCAGGA GAAAGAGGAG CAACAGGTAT ACCAGGAAGG
301501 GATGGCGTGG ACGGTTCTGT GGGCCCTCAA GGAGAAAGAG GAGAAATTGG ACGCCAGGA
301561 AGAGATGGAG CAGTTGGCCC TGCAGGCCCT CAAGGAAGAA GAGGAGCAAC AGGACGCGCA
301621 GGAAAGGATG GTGCAGTTGG TCCTGCAGGC CCTCAAGGAG AAAAAGGAGA AGCTGGTAAG
301681 GACGGTTCTA TAGGGCCTCA AGGAATACAA GGCCCAAGAG GAGAGACTGG ACCACCGGGA
301741 AGGGACGGCA CTGCAGCAGA AAGAGGAGAA AGAGGCTTCC CAGGACCACC AGGCGAAACT

301801 GGACCACCAG GAAAGGATGG TGTGGATGGT TCTGAGGGCC CTCAAGGGAA AAGAGGAGAA
301861 ACAGGACCCG TTGGACCTAG GGGTGAACCA GGTCTAGCTG GCCTCCCAGG AAGAGATGGA
301921 GCAATTGGCC CTGCAGGCC CCCCAGGAGAA AGAGGAGCAA CTGGTCTACC AGGAAGGAAT
301981 GGTGTGGATG GTTCTATCGG CCCCAGGAGAA AGAAGAGGAG CAACAGGCCG CGCAGGAAAG
302041 GATGGGGCAG TTGGCCCTGC AGGCCCTCCA GGAGAAAGAG GAGCAACAGG TATACCAGGA
302101 AGGGATGGTG TGGACGGTTC TGTGGGCCCT CCAGGAGAAA GAGGAGAAAC TGGACCAGCA
302161 GGAAGGGACG GTTCAGTTGG CCCTGCTGGC CCTCATGGAG AAAGAGGAGA AAATGGACGC
302221 CCAGGAAGAG ATGGGGCAAC TGGCCCTATA GGTCTGCTG GTCCCTCAAGG AGAAAAAGGA
302281 GAAATGGAC GCCCAGGAAG AGATGGAGCA ACTGGCCCTA TAGGCCCTAG AGGAGAAACT
302341 GGTGCAATGG GAAAGAATGG CGTGGACGGT TCTATGGGTC CTCAAGGAAG AAGAGGAGCA
302401 ACAGGCCCGC CAGGAAAGGA TGGGGCAGTT GGCCCTGCTG GCCCTCCAGG AGAAAGAGGA
302461 GAAACTGGAC CAGCAGGAAG GGACGGTTCA GTTGGCCCTG CTGGCCCTCA AGGAGAAACA
302521 GGATTAAC TG CAGCCCAGG AAGAGAGAAA TGGACGCCCA GGAAGAGATG GAGCAACTGG CCCTATAGGT
302581 CAAGGAGAAA AAGAGAGAAA AAAAGGAGAA AATGGACGCC CAGGAAGAGA TGGAGCAACT
302641 CCTGCTGGCC CTCAGGAGA AAAAGGAGAA AATGGACGCC CAGGAAGAGA TGGAGCAACT
302701 GGCCCTATAG GTCCTGCTGG CCCTCAAGGA GAAACAGGAT TAACTGGACG CCCAGGAAGA
302761 GATGGAGCAA CTGGCCCTAT AGGTCTTAGA GGAGAACTG GTGCAATGGG AAAGAATGGT
302821 GTGGACGGTT CTACGGGTCC TCAAGGAAGA AGAGGAGCAA CAGGCCGCGC AGGAAAGGAT
302881 GGAGCAGTTG GCCCTGCTGG CCCTCCAGGA GAAAGAGGAG AAAATGGACG CCCAGGAAGA
302941 GATGGAGCAA CTGGCCCTAT AGGTCTGCTG GGCCCTCAAG GAGAAACAGG ATTAGCTGGG
303001 CTGCCAGGAA GAGATGGAGC AATTGGTCTT CAAGGAGAAA AGGGAGAAAA TGGACGCCCA
303061 GGAAAGGATG GGGCAACTGG CCCTATGGGT CCTCCAGGAG AAAGGGGAGA GACTGGTCTT
303121 ATAGGTCTTG CTGGCCCTCA AGGAGCAACT GGTCTTCCAG GAAGGGATGG TGTGGATGGT
303181 TCTGTTGGCC CTCAAGGAAA AAGAGGATTA ATAGGGCGCA CAGGAAGGGA TGGGGCAATT
303241 GGCCCTGTAG GTCCTGCAGG CCCTAAAGGA GAAACAGGAT TAGCTGGCCT GCCAGGGATA
303301 GATGGAAAGG ACGGTTCCGT GGGTCTCAA GGAGCAATTG GACCTATAGG CCCACGAGGA
303361 GAAAGAGGAG AAAGTGGACG ACCAGGAAGG AGCTACGGGA GCTCCAGGAC CGCAAGGAGA AAGAGGATTA
303421 GGCCCCCAAG GACTAAGAGG AGTACGGGA GCTCCAGGAC CGCAAGGAGA AAGAGGATTA
303481 AAGGGACGGC CAGGAAAAGA TGGTGAACA GGTCTCCAG GCGCACAAGG AAGGGATGGA
303541 ATAATGGGTC CTAGGGGTCT TCGAGGAGAA AAAGGAGCAC CTGGTAATGA TGGTCTAGAG
303601 GGACCTGAAG GAAGAGATGG TGCACCTGGT CCGGCTGGCC CTATTGGACC TCAAGGAATA
303661 AGAGGATTAA AAGGTATCCA GGGACGACCA GGAAGAGACG GAGAAATGGG ACCAGGCGG
303721 AAGGACGGAA TAGAAGGCCC TAGAGGTCAA GATGGAACAA CTGGCGCTAA AGGACCTAGA
303781 GGATTAAGAG GTTTTCAAGG AAGAACAGGA GAAACTGGTG CACAAGGATC TAGAGGAGAA
303841 AAAGGCGATA GAGGGCTAAC AGGCCCTCAA GGAAGAGACG GTCCACCCGG TGAAGAAGGT
303901 CCTCAAGGTC TTAGAGGAGA AAGGGGAGCA CCTGGCCCTA GAGGTCTTAG AGGTATTCTG
303961 GGCCGTTCAG GACCTCAAGG AAGTAACGGC GTGCAAGGAC CTCGAGGTCC CCGAGGAACA
304021 AAAGGAAGAA CAGGAATACA AGGCCTCACT GGCATAGAAG GTCCTCGAGG TCCTAGAGGT
304081 ATACAAGGAA AGGAAGGAAG AATGGGGAAA ATTGGACATC GAGGAGAAAA GGGTGATAAA
304141 GGAGACCGTG GAGAACAAGG CATCGCTGGA GCAGACGGGG AAAAAGGTCC AAGAGGTTTA
304201 CGAGGAATTC GAGGCCCTAT TGGTGCTCCT GGTAAGCCTG GCACGGAAGG GGTAGAGGT
304261 CCTAGAGGGG TGAGAGGTGT TCCTGGCTAT CCTGGCGCAC AAGGGGAATT AGGTCCCCAA
304321 GGACCAACAG GTCCTCAAGG GCCAGCAGGT CCTCAAGGGC CGATGGGGCG TACAGGAGAT
304381 ACTGGTCCCA TGGGCCCTCC TGGAGCAGTG GGACCAAGAG GAGAGAAAGG AGGTAGAGGA
304441 AGAAAGGGAA AAAATGGCCC TAAAGGAGCG GACGGAAAAG ATGCCGTAAT TATCATACAA
304501 AAATATTCAA TCACCCATGC TCGTGACAGG ATAATGTGGG AAGGAAATGA AATCGGAGAA
304561 GCATACATTG GAAGATCTTA TGGAACTGAT ACAATCCCTG TGATGATAGA AAATAGAATA
304621 GGGATGACAA ATGAGGACAA AAAAAACGAA TATTGTATAC AAGTAATGAC AATGCACTCA
304681 ATAACAATA GAGGAAGAAC ATCGGGTGTT TTTGTGGTAA GCAATAAGAC AGATTATATC
304741 CTTTGTAGTTA CTTTACTGAT GCCAGAAAGT GTTTCTGTGA GAACAGATGT CAGTACAAAT
304801 GCGAGGTCAG AGAGGGTGAA TGCTGTTAGA GAAAGAGAAA GCAAATCGTA CAGATTTTAT
304861 AGCCGTCTG ACCAATCTAT AGGTACTCAT TCACGTCAA AAATTGCCGT GGTAATGTAT
304921 CCAGACGCAA GCATGAGTTA CTCAGTTGAT ACATTAGACG CTGATGTGGC GCGAAGAGAA
304981 ACAACGTCTG TGCTTTTATT AGCAGAAACC ATACACGGGG AAAAAGATAG AGGTTTCTAT
305041 GCTGATAGAG GAACTGTAGG GAGGTTGATG GTACCTCCCA CTGAAGAAGA GTTATTGGTA
305101 TTGCAAGC

5. 根据权利要求1所述的对虾白斑杆状病毒基因组DNA全部序列, 其特征在于 WSBV cDNA 序列:

编号: C001 长度: 1642 bp

碱基对组成: 592 A 281 C 353 G 416 T

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1 CTTTAAACAA TTAAAAGTAA AAAATGGTAT TTGTTTGTCT GGGGAAAATA CCGAAAATTA
61 TGAACGGGTA CTATTAACAT TCAAATCAGT CAAGAGTGTG AGGAGAAGTG AGCTAAAGGA
121 AGGACATTTT ATAGTTCGTC TTAGAGACAA GGAAGTACTC CACATCAAGA ACGGTAACGA
181 AAGATTGAGA CAATTAACAG GAGATCCTAC GCTTCAGATT GGAATAAAAT ACACATCCAG
241 TCTCCCAAAA CAAGGTAGTT TCTTAGAAGA TGAAGACCCCT AATTATGGAA AAAAATGGAA
301 CGAATCACTA CCAAGCCCAT TCCAGGAAAT GAACAAAATT GTGGAAGAAA AGGCTCTAGT
361 TAATGACAAG AACTTTAAAT TTTCACCCCT ATACAGAATC ATACATGAAC GTCTTTCAAA
421 TCGGCGCGTT AAGAAATGTG ATTATATGAT AATCACAACA GACTTCTTAG TAGGGTGTGG
481 GTTTTCTCCT AGAAATTGTA CCCGTACTCT TAAGAATATG GAACAAGTGT TAGTGCAACA
541 CGGTGGTACC TCTTCTCGTG TATCAGTGTA TGATATCTGT GATAGGTTAA CGTACAATGG
601 CTTAAGTATC GCAAACCCCA TAGTTGGCAG TTTTTCAAAT ATGTGCCTAA TTGTACCAAT
661 GGATAAACTT GGATTACTTT TCTACAACAG CACACACCCG TCAGCTAAAA GCATTGGAAA
721 TTACATGTCA TGCCTTTTC A TGCTGCAGT TGTATACACG CTAGAAAAGA GTAATCAAAA
781 ATTAGATAAT TTCGAAAAGG AAATCAGATT TGCAAAAAAT GAAGTCAACC TTCTAGTTAG
841 CGAAAGAAGT GTTCTGGAAG AAAAAGTTAA AGAATCCAAA AAGCTATATG CTGCCTCAGA
901 AGAACAAAAG ATTTCTCTTC GAGATGTGCA TAAAAAGTCC TCAATTGCAT CATCCAGATA
961 TGACGGCGGT GCCTGTCTGG TCTTTGCCTT TTCTGACCGA GATTTCTCCT TGTGTGTCAG
1021 AACCAATGGA AATGGTTCCT TTTACTCTGC CACAGAAGAA GGAATCAGAT ACGTCTCTTC
1081 GGACGACTAC AGAAAGAGGG ACGTGGATGA ACGTAGGCCC AGATTGGTCA TGTCCTAAC
1141 TGGCTCAGAT GCACCTATAT GCATCAGAGA TAGTATACGA AACCATTTTA ATAACCATTT
1201 CATTGCATCC GGAAAGGGTA ATGAAATATC ATTATCGAT CCTCCGAATG AAAGGTTGTT
1261 GATGGAGATG GTCAGAGAGG TTAATGATC AGACATCAAA ATCTTCATGG ATAATGGAAA
1321 AGTATATCAA GATGGTGTAG AAATAAAAGT GATTGACCCC TCTTCTAAAG AAGGCAAGGA
1381 CATAATAAAA AAGGAAGAAA CATTACCAGA GGAGGAAAAG AAGCGTCTGC GCCGAGAGCG
1441 TCGCATGATT TTCAACACAG TTAAGCAAT TGAGACGTAC AACGAGGAAC GTGGGGAAGA
1501 AGAAGAAGTA GCCACAAGCA GTGGAGGAAC AAAGAGAAAG AGGGAGGAGA AAGAAGGCGA
1561 TTATGTTGCC CTTTGAACA AGGCATGCAA AGAAATTAAA GTTTGTTGAA TATAATGGAC
1621 AATAAAACAA GTTATAACAT TT
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编号: C002 长度: 750 bp

碱基对组成: 226 A 186 C 165 G 173 T

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1 GCAAAAACATA AGTTGGGAGA AAATGGACGT TTCTTCCTAT AAGAGCACTA TTGACTACCA
61 CAACATTGAA GATATGGACG ATCTCCAGCG CGCCACCTAC AAGGATCGTA TGGAGACGGA
121 ATTGGTCCTC GAGATGGCTA AGAAGGAGGG AAGGTACGTC CGATCGTTGG CCACCATGGA
181 CGAATTGGAG GTACCTGAAG AACCAGCCAC TTGCTACACT TGCGGCTACA CCTTTATTAG
241 ACGCAGGGCA CCCCCACCAA AACGCAAGTC AATATTGAGA GAGCCTTGG CTTACCCAGA
301 ACTTCTCCCC GATGCACCAT CCCCCGTCCG TTTAGAAGAG CTTGTGACG TGCCAGAAGG
361 AGCGAGTTTT TTCACCTACC CTCCACCTACA CGACGGATCT TCTACATCGT CTTACCAAGC
421 CGAATGTGAA GATGATTATC CTCCACCATA CGACCCATCA GAAAATCCAC AGAGGTCCCA
481 AGTGTGTGAT TATTGTACCA CACGTCAAGT CCTCAGTTCT ATGACGGATC ACGCCAGGGC
541 CAACCTCATA AAAAATCTGA AGAGGGAGAA GAAGGCCCTG GGTCTTGGCC GTCGCAACAA
601 CTTTAGCTAC TAGGGTTGTA CAAGAAGAAA ATAGGATTGA TTGTATCGAT GACGAACTTT
661 GCATGTTTTT GACCAATCTT TTGCTTCTG AGTGTACATA GCTTTATATT TGCCAATAAA
721 ACAGACCCCG AATGTAAAAA AAAAAAAAAA
```

编号: C003 长度: 431 bp

碱基对组成: 146 A 68 C 99 G 118 T

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1 CTGAAGAATA TTGAAAGAAG ACTTCTTGAA GAGGACCGAT AAAAAAATGG CCACCTTCCA
61 GACTGACGCC GATTTCTTGC TGGTGGGGGA TGATACTAGT AGATATGAAG AAGTGATGAA
121 GACTTTTGAT ACTGTTGAGG CAGTCAGGAA GAGTGATCTA GATGACCGTG TTTACATGGT
181 GTGCCTAAAG CAGGGATCTA CTTTTGTCTT CAATGGAGGC ATCGAAGAAT TCGCTCTTTT
241 GACTGGAGAT TCAACGCTGG AGATTCAACC CATGATTGTG CCAACAACAG AATAAAATAA
301 AGACGGTGAC GGGAGACTAA TATCTTTCTT AGTTTCCCGT CACGGTGAAA ATGTTGGTTA
361 TTTCTTCCCT ATGTTTAAAA ATTTGTCTTG GTTAAAAAAA TAAACGAAA ACTGTCAAAA
421 AAAAAAAAAA A
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编号: C004

长度: 624 bp

碱基对组成: 177 A 111 C 157 G 179 T

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1 GGCACAACAA CAGACCCTAC CCGCCCCAAT ATCATATTCT TTGAAAGTCT ACTCCCCAAC
61 TCTGGTATTG AGGTGATGAA GAGGCGTCTC GTACGGCAAG GAAAGTGTGG GAATTTTGAA
121 GCAAGTGGAG GTGCTATGTC GTATTTCTGG CTCGAAGATA ATGCAGAAGA TATGGAGAAT
181 CTCAACAGTG GTTCCCATGT CAAGACAAAC TGCTTGGCAT TATTCCTTCA AGAGTTTATC
241 AGCAACTGGA TTGAAGAGAC TGATCGACAT GGACAGTACT GTACTTTTCC CCAATACATG
301 GACGGTGGGG ATGGTTCACG TGGGGGATAT TTTACTTCGC TAGCCATGAA ATGGATGGCT
361 AGGGATGTGA CTTTCTTTGT GTTTGTTGAT AGGAATAATA CTGTAGAAAA TCGGCGCATCC
421 ATATGGATGT ACCAAAACT ACTAGCAATT GGTGCAAAGG TAGTAAAGGT GATTGTTGAC
481 AATGCATCAA ACCCAATGTT TTCTGTATGT AATGCGTGTA GGTGCAAGTA CCCAGGCCCA
541 GTGTCATACG TTATTGAAGG CCATGGAGTG GGTCATTCTG ATTTGACATG TGATGAGATT
601 TCTGGATTCT TTGTATAATA AAAC
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编号: C005

长度: 221 bp

碱基对组成: 88 A 35 C 35 G 63 T

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1 GAAGTTTTAA GGGTATCTCA ACTCAGATGG AGCCGCTTGT TCAATGAACA ATACAACACT
61 AGAATGTCCC TCAGCACCAA AAGATTGACC CTCATGAAGA TCTTCAACCA TGATTGGGT
121 GTGTCTAAAT TTGGTGTATA CAAACTCCTA GATATTATTG AAATGTACTG TTTTACTTTA
181 ATCTAAACAA TAAAAATAAT GTAAAGAAAA AAAAAAAAAA A
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编号: C006

长度: 300 bp

碱基对组成: 141 A 30 C 79 G 50 T

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1 AAGAAGACAC TGCCAAAGGA ACCTGCCGTT AAGAAGGTGA AGCAGGAAGA AGATGTGGAG
61 ATGGAGGAAG TGAAGGAAGC AGCAGCAGAA GAAGAAAAGA AAGAGGAACA GGAGGCGAAG
121 GAGGAAGACG CTACTGAGTA TGACGACGAT ACAGAAGAGG ACGAGAAAGC AGTAGCATCT
181 GATGAAGATG AAGATGATGA AGATTCTAAA GCTATTTTCT AAATATCATG TGTATAAAAT
241 GTAGTATTTT AAAGGTATAA ATAAACACAA TATAAAGTTA AAAAAAAAAA AAAAAAAAAA
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编号: C007

长度: 645 bp

碱基对组成: 208 A 106 C 161 G 170 T

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1 CTCCTCTGTC GCATCATCCG TGATGATGGA AAGAGATGAA GAAAATACAC TGTCCCTCAG
61 GAACAGGAAT GTGAACAAAC CAACACCTGT TAGCGCCGCC TGGGTGCCTG TTGATGAAGA
121 GGATGAAGAT AGGGAGGAAA TGAGAAGACT TGAAGATTTT TCTTCAGATG AAGAAGACGA
181 TGATAATAAA TCATGTCATT GTGACCATAG CGATGACGAT GACGATGACC AGGAGGATCC
241 TTCATGCTTT AAGGGTTTTT CAGCTGGCCT GTGCTCTTTT GTGAGGGGTT TCTTTGGCTT
301 CCTCAGGAAG TCACTTACCA AGAAACAGGT GTTCCTTCTT ACAAGCGCAG CCGTTGCTGC
361 TATTTTTAAG ACTAGAGATG TGGCTAAAC TGAAGAAGGC GCAGCAACCA TGGAAGAAAA
421 TTCAACAGAT GTGATTACTG GAGGAGATGG AGATAGTGGT ATTGCTGCTG ATGTTGTCTC
481 TCTCGCTAGT GAGGGAGAGG GAGAAAATGG ATCTCTTTTG GAATCTATTG CAACAACACT
541 CATCAAGACT ACAATTGAAA ATCTTGTAGA TGGTGGAGAA GAAACACAG AATTGTAAAA
601 TGTTTTTTGG TATACAAATA AAAGAATACA TAATTTAAAA AAAAA
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编号: C008

长度: 529 bp

碱基对组成: 205 A 84 C 109 G 131 T

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1 GCCCTTACCT CTCTTATCTG CATTTTCATC CAAGATGTTA GTGGATAACA TGTTGAAGAA
61 TAATTATGTC AAAGTGGAAA ATGTTAACAG AGAAAAATTG ATCTGGAAAG CATTTAGAGA
121 GATGCAAACG GAATCAGAGA TATGGAAAC TAGTGGGAGT AAAGCCGCAT CCGACAGGAA
181 TGTGAAGAAG GCCAAGCAAG ACTTGATACG GAACGCATCT ATAGGAAGAC TTATTGTCGA
241 ACCTGTAGGA AAGACCCCTA TTTCATCCAT AGCCTTATTC AGGTCTATGA AGAGGAGTAG
301 AAGCGAAGAT TTAAAGATGG GAAGCAATAA TAAGTACCGT CTCGCCAGGG ACACGAAAC
361 AGCTACACCA AGGAACCCCTC TAAGTTATAC TGGAAAGATT GTATTCTCTT TGGATGATTT
421 GAAAAATTTT AGTAAGGATT CTTATACTAC AATGAAAGTA TTTCTCTTAA CACCTTTAGA
481 TGGATAGAAC CAATAAAATG GAATTGAAAA TATAAAAAAA AAAAAAAAAA
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编号: C009

长度: 1068 bp

001100

90

碱基对组成: 323 A 254 C 277 G 214 T

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1   CGTCAAGATG GTGTCGTCTA TTACCCACCT CTCTCTGTTG TTCGTCGTGG CTGTAGTAGC
61  TTCCGTCGTT TTTACAAC TGAGGAGCTAG TGTGAGAGTG AAACGGTGTG CTGTTAGCCC
121 GTGCCCCGAC GTTATTGACC CCGACCACCG CTGCCAAGGG CGACTGTGCC GCAGGTCTAC
181 TCGAGGAGGT GACGACGACG ACGACGATGA CGATGGAGGA ACTTTTCGATA CAGTAGGGTC
241 TGGTATACTT GGACGCAAAA AGCGTGCCGC ACCTCCACCT GAGGATGAAG AAGAGGATGA
301 GTTCTACCGC AAAAAGCGTG CCGCACCTCC ACCTGAGGAT GGATGAAGAA GAGGATGAGT TCTACCGCAA
361 CCGCAAAAAG CGTGCCGCAC CTCCACCTGA GGATGAAGAA GAGGATGAGT TCTACCGCAA
421 AAAGCGTGCC GCACCTCCAC CTGAGGATGA AGAAGAGGAT GAGTTCTACC GCAAAAAGCG
481 TGCCGCACCT CCACCTGAGG ATGAAGAAGA GGATGATTTC TACCGCAAAA AGCGTGCCGC
541 ACCTCCACCT GAGGATGAAG AAGAGGATGA TTTCTACCGC AAAAAGCGTG CCGCACCTCC
601 ACCTGAGGAT GAAGAAGAGG ATGATTTCTA CCGCAAAAAG AAAGCGTGCC GCACCTCCAC CTGAGGATGA
661 GGATGAAGAA GAGGATGAGT TCTACCGCAA AAAGCGTGCC GCACCTCCAC CTGAGGATGA
721 AGAAGAGGAT GATTTCTACC GCAAAAAGCG TGCCGCACCT CCACCTGAGG ATGAAGAAGA
781 GGATGATTTC TACCGCAAAA AGCGTGCCGC ACCTCCACCT GAGGATGAAG AAGAGGATGA
841 TTTCTACCGC AAAAAGCGTG CCGCACCTCC ACCTGAGGAT GAAGAAGAGG ATGATTTCTA
901 CCGCAAAAAG CGTTAAACTA CGCACGAAAG TGACGGTGGT TGAAGAATAG ACTAATATTG
961 TTGATATGTT AACCCCTTTT TTTCATGAAA TGTGTACACA CCTGCTATAT ATACGTGCAT
1021ATTTGAATAA GGAATAAAGT TTATCTGCAT CAAAAAATAA AAAAAAAA
  
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编号: C010 长度: 1103 bp

碱基对组成: 386 A 208 C 191 G 318 T

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1   CTATTTTAGG GTACTAGAAA ACGTTGTGAC AACCAATCAT GAGGTTTATC CCGATGTTGA
61  TAATTGCGCT TATCGCTGCA TTTGTTATTG CAGCTCTTCT TACTGCCAAT TCAAATTACC
121 TGGATCACAA TATCAATAAG GAACTAAATT TGACCCGTTT CCTTCAACTT CGGGGAACAT
181 TCACACCAGA AGATATAGCT CATAACAACA GAATTCTCCC TTCCAAGCTG AGTGTTTTAG
241 AAAGAGGGTC AATCATTTTA GCAGAAATGG ACAAGTACAA AAATGCACAA CCTACAGTAA
301 ATAATTCTCA AGAGAGGAGG AACATTTCTA CTCCTCAACA ACAACAACAG ACCACCCCTT
361 CATCCCAATC ATCTTCCCAA GTTGAACCTT AAATTCTATA AGAAAATGCT GATTTTGTGT
421 CCTGTATGTG ACGAGTCTCG CACCGACGAG AAAGAAGATT TTAACAACGA TGAGGAAGAA
481 AATATATTAA AGGAGGAAGA AGTTAGTGGA GGAGAAAAGG TTGTAAATAT CGTAGTAGGG
541 AGTATTAAGA TGATGAAACC TGGTTCAAAA ATCAAAACAA AGTACAGGCT CTACTCCCTC
601 CTTGCAAGTG CGATAGGGAG TAGAAAGAAA GCTGAAGAAT ATATTGAACG TCTATACAAT
661 TCCTTTTCTT CCATGACGTT GAATGAAGGA GGACGTCTGG CTTGAGCGAT TTATTGTCCA
721 TCCTACAACA ATAAAAGGAT AAAAAACAAT CGTTCTAGGC CTGTGAAGCT GATCCATGCC
781 TCCAGGGAAT TGTTATCTGA AACTACGGTG AGGGAGGAAA TACTACGGAA ATCTCCCGCT
841 TCTTCTTCTT CTTCTTCAAC GTCATCATCC ACTTCTTCGT TTTCTTCAAT TTTTGTGTT
901 GTACCTTCTA ATTGTACTTC TAAAACGTGA TGCGATTTTG TAAAACACAT ACAGTATGAA
961 GAAGATATTA ACCGTTTAA GATAACATA ATACATATAT CTGAAGAAA CTATGCTTCA
1021AGATTTTCTA AAATTAATAG ATTAACATA TGTATACAAG GTATAAGTAA GACAATAAAG
1081ATTCTATATT CCAAAAAAAA AAA
  
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编号: C011 长度: 1105 bp

碱基对组成: 375 A 167 C 264 G 299 T

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1   CTATTACAGG ATCACATGCA CATGCTCCTA GAGGGGGGGG GTGGCTGTGT CCTTGTATAA
61  AAAGCGAGGT TGGCACAGAC TATCAAACAT TCAGCCGTAA ACCATGGAGG AAGAAAGTCA
121 ACGAGTACAG AGGAGGATCG GAGTCCTCCC AGAAGAGGCT GCCTCCCAGA TCCTGAAAGA
181 CACCAAGTTA AGAGTATCAT ATCTGGGCGT GGGACATTGG GGATACTCTG TTTCAATTAT
241 AAAAAGTGCT CTCCAGAAAG GATGCAGGAG GAACGATGAG GATATAACTG CGTGGTCAAT
301 CAGGGAGGCT TATCTCTATT ACCATCTTGG ATTGAATTAC ATTGAAAACG TAAAACCTGC
361 TGCAAAATCA TTAAATACAA ATATGGTAAA CAGAATTAAA ATCATAGCTG TGGAGGATAC
421 CAGTCCTAGA AGTATGGTGG CTTCTAATGA GTGTGTGAGA ACTCTAGAAA AATATGAAAA
481 GGGGAATTTT AGGCAACCCA GTTACTTGAT GGATGCTGCC ATGAGGCTAG TTCACGCCTC
541 CAGTTCTAGA GTGTGCTCCC ACATGAGAGC TTTGTGTTGG AAGGAAGAGG ACAGTGATAA
601 ATTAGGGGGT ATTTATTATG CTAATTTTAA TGAACCTGAA ACTCAGTGTG TTAGTGCAGT
661 TAATTTTCTT CCCATAGAAA GAATTAAACA CGTCTTCAGG GAGATTGAAA GTGTAAAATT
721 GGGGAAGAAA AGTGACAGT TATTAAATTT AAGAAAGTGA GCAGCTTACC ATGTGTTAAG
781 ATATTATGGG GATAAAGTGA AAGATACAAA TAAGAAACAT AGTGGACCAT TCAAGCGAAA
841 AGAGTTTGAG CAGTTTGGG GGTATGCTT TAAATTTGTT ACTCAGCACG TAAAACAGA
901 CCCTGAATTA CGTTGTATT TTAATGAGTT GACATATGCC ATAAATTGGA GAAGGGATTT
961 TTTCTGCTCA AAAGGGTTCT TTAGAGAAGA AAGTCTATTC CTTACATCTA TTGTGGAATT
1021AATTATAGCC ATGTGCATAG GTGACCGTAA ACAGTTTGCC AAGATTCAGA AAAGGGATTT
1081AAAACGTTTC AAAAAAATAA AAAA
  
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编号: C012 长度: 650 bp
碱基对组成: 211 A 144 C 127 G 168 T
1 CCCCTATCAG CTTGAGAAAT ATTGACCCAG AATCAGTCCC CGACACTCGA TTCCACTTTC
61 TGCTCATGAT GTGGCAGCGG CCAAATATCG ATGAACCTAA TCTTTCTGCT CTAACACAA
121 GTCAGCTAGA ATTGTTGCTT AGCAAGAACC AAAAATGGGA CAACTCACC ACCAGAGCGT
181 TCTTCAATAT CGACAGGATC AATTTCCAGA TGGCAGACGC TATCATTAAG AACGTTTCTG
241 GAAGCGGCTT CCTAGATGGG AGTAAACTG CCTCTTCTTC TTCTCAGCG CCTAACTTT
301 TCCAAATCTT CAGTGGTGCT GAATGCACTG CAAAGCAGCT CCAAAGTATT CGCAAATTCA
361 TTGGAGAATC TATGCAGCAT GTACAAAAGG AATGGAGTAG TGCAGTAAAC AATGGGAACA
421 GAGGAGTAGA AAATTATGAC GGACTCAATG CTCAGTTCTC TGAAGAACTG TTCGAGCTGC
481 TCTACAAATT GATCATCGAG GAGGATATGC GGCCATCCAG CCTGATCGCC TCATCTGAAT
541 TCTTGAGCAA CTACGTCAAC GCCATGGATG AACTTCTTAT CAGAGCTAAT GCTTCTTAGA
601 TAGGGTTTTT ATGAAATAAA ACAAATATAA ATTATAAAAA AAAAAAAAAA

编号: C013 长度: 524 bp
碱基对组成: 213 A 78 C 129 G 104 T
1 GTACGAAACC ACTTCAAGAC GAGACTTTTC TCCCAGCAAC GTGGCAATAG TATAACCTTT
61 GCAGTCCCTC CAGGAGAAAG GGAACCTAATG GAAATGGTCA GAGAGGTAAC AGGAACAGAC
121 ATCAAAATTT TCATGGATAA TGGAAAAGTA TATCAAAATG GTGCCGAAAT CAATGTGATT
181 GATCCGACAT CTAAGGAATA CAAAGAGTTA CTCAAAAGGG AAGAAAACCT GCCCGAAGAC
241 GAACGGAAGC GTTTGCGGCG AGAACGACGC ATGATTTTCA ATACGTCAAG GGCAATTTCC
301 ATGTATAATG AAGAACGTGG AGATGGAGGA AGTGGAGGAG AAACCTTCAGA AGATGGAGAT
361 GGAAACGGCA GCACCAGCAG TAAAGGAGAG AAAAGGAAAA GAGAAGAAAA TGAAGGGAAT
421 GAATATGTAG TCCTTTTGAA CAAGGCTTGT AAAGACATAA AAGTTTGCTA ACCATGCATT
481 TATTTTAAAT GGGTTTGGGA CAAAAAATAA AAAAAAATAA AAAA

编号: C014 长度: 715 bp
碱基对组成: 225 A 145 C 144 G 201 T
1 CTCCAGTACG TCCAGAAATG ACTGGTCTTA TTGGTGCAAT CTCGCGGCCA GTTAGAGGTA
61 TTAGCCACTT GTTGAAACTG GGAGGTGTTT CTGCTGCTAA CGCAGCTATC CGCAAGCGCC
121 TCAACCTACC TACATCCAAC GGGAAAACAC TACCAGAACA TGGAAATCGTA CACAAATCAG
181 CCAAGACACT TTTGCTTGAT TCAGACTCTA TTAGCAACCT ATACAACACT GATCTTCAAG
241 ACGTTGTCTC TAACGCTAGG GATAACAACA ATTTGGGAAG AATTATGCAA TCTTTGGGAC
301 TTAAGGGGAA TAATGCAGGG GATTTGGTTT ATTCTGCTAG ACAACTGACG GACCTTATTA
361 CTGTACCAGA ATATGGAAAC AATCGCGATC TTACCAAGCG TCAAGCTATC CTTAAAATGC
421 TCATTTCTAA CCCTGAAATT CTAGAAAATG TTGCAGATAC CATTTACCTT ACAACAGGTA
481 AAAATGCTCT CGCACCGGTA TCTGCTCAGG AAATGGCTTG TGCGTCTCTG ACAGTCGGAG
541 GAAGTGGAGG AGGAAAACCTG TCATCAGACG ACAATGTTCA ATCCCTGAAC CGCCTTTATT
601 TTCGGGTCTA GACTAGTGTA ATATTGTATG TTTAATTTAT TGTGTAACAA TTGGTTTATA
661 TTTGTATGTG ATTTTTTTCG ACAAATAAAA GAATTGGAAT AAAAAAATAA AAAA

编号: C015 长度: 1077 bp
碱基对组成: 338 A 192 C 209 G 338 T
1 CTAGAATTGA GAGACGTAAA ATCAGTTTCC CGTTTACAGG AGAATACTAA CACCTTTTTT
61 CATTTGTACA CTTCAATGAG TCTTTGTGCT AAGGCTGCAA CAAATTACGG AGAATCTTCT
121 TCTTCTTCTG CTACTATCAC TGAAGTAGAA GAAGACAATA GTTGTGATGC TGAGGAACAA
181 CAATTGCGCC GTAAGAAACC AGCAAATTAC GAGTCCATGT GCAATAAATT ACCATCACCT
241 CTTCAAATGT GCCAGATTAA TCCTAAATCT TTGAATACAA TGGCTATGAA TATTGCTCGT
301 TCTAGACAAG GCGCATGGGC TCAACTAAAT AGCATGCTCA ATTCAGTTTT ATTTGTAGAA
361 ATGCCCTTTG TTAAGACCAC AAGATTCTTT GGGAGAGATT TTAACATCAA GATGCACTCT
421 CCTGCCACAA AGAATAGGCC AGCCATCAAT TTTGACAATT GTATTGGTAT GAGTTTACCA
481 AATCCTGATA TGGGTGTTGT AGGATATGAT AAGGAAGGGG AATTAATAGG AGTTGGTTCT
541 TCACATAACAA AACATTTGTG TGATGCCTGG GGTTCATGG ATGTTAGGGA TTTGATGTAT
601 TCTTGCCACC ATTTACACAT GTTGTTTGAA ATGGCTCTCC AGTATACTGA ATGTAAGAGG
661 AGACTTTCCT CATTAATAAC ACTAAAGAGT GATAAACTG GTGTTGATTA TGTGCTGTA
721 ATGTTAGCCT GTATGGTGTA CCAATTGATG GTTAGTAATC TGAAATACCC TGTGTTTTTG
781 TCCTCTTCAT CCCACAAGAG GGCAAAATACA GAGGATATTG CGGATGAGAA TCAAGTTTCT
841 TCACATCTG TTCCCATGTT TCTGGCAATG GTTGTGAATA AACCCTTGCA TGCTCTTAGA
901 CACTCTACCA ATTTAGCTCT TCCTAATGCT TCTCAAAAT CTGACCATTG TGATATTGTC



52

961 AAGTACATTG TAATGAACCA ATGGGGTTTG AGACTTAACC CTGATTATCT GTGCCCCAAC
1021TGTGTAAAC ATGTTCTTTG ATCAAATAAA AGAATTGATG AATAAAAAAA AAAAAAA

编号: C016

长度: 724 bp

碱基对组成: 248 A 144 C 146 G 186 T

1 CAACACGTAA AGGAAGAAGT TCCATCTAAA ACAAGAAAA ATGGAATTTG GCAACCTAAC
61 AAACCTGGAC GTTGCAATTA TTGCAATCTT GTCCATTGCA ATCATTGCTC TAATCGTTAT
121 CATGGTTATA ATGATTGTAT TCAACACACG TGTGGAAGA AGCGTCGTCG CTAATTATGA
181 TCAGATGATG CGAGTCCCAA TTCAAAGAAG GGCAAAGGTA ATGTCAATTC GTGGAGAGAG
241 GTCCTACAAT ACTCCTCTTG GAAAGGTGGC CATGAAGAAT GGTCTCTCCG ATAAGGACAT
301 GAAGGATGTT TCTGCTGATC TTGTCATCTC TACCGTCACA GCCCCAAGGA CTGATCCCCG
361 TGGCACTGGG GCCGAGAACT CTAACATGAC TTTGAAGATC CTCAACAACA CTGGCGTCGA
421 TCTCTTGATC AACGACATTA CTGTTGCGCC AACTGTTATT GCAGGAAACA TTAAGGGAAA
481 TACTATGTCG AACACTTACT TCTCGAGCAA GGACATTAA TCTTCATCTT CAAAAATTAC
541 CCTCATTGAC GTGTGCAGCA AATTTGAAGA CGGCGCAGCC TTCGAAGCTA CAATGAACAT
601 TGGATTACCC TCCAAGAATG TGATCGATAT CAAGGACGAA ATCAAGAAGA AGTAAAGTGG
661 GAATTGTACA AATATAAAGG TTTTGTGTTGA ATAAAAATAC AAGTAATTTT AAAAAAAAAA
721 AAAA

编号: C017

长度: 864 bp

碱基对组成: 300 A 211 C 160 G 193 T

1 CTTCCAACCG ATTCAGTCAG CTGAGGGGCA ACGAGGAGAT GGTGCGGAC TATTCAAGAT
61 GGACAACTGT CAAGAACAGG AGGAACAGAC AGCAACAGTA TTCCCATAGT TTCCGTCCCC
121 AACACAACA ACAACATCAA AAAAGAACAT CAACCAATTC TCCTCCTGCT CCACCTCCTC
181 CATTCCCCAT CATTAGTTGG GGAGCCCTCG GCAGCTACTC AATGTATCGA CTGGATGACC
241 AGTGCAGAAA TTGCGATGAA ACTGGCTATT ACAATTTCCA CTCTTATGAT AGAAAGAGGG
301 AAAGAGTTCTG CTCATTAAAC AACACTCCAA GTGAAGGCAT GTGGCGGCGC ACAAGTAGAT
361 CTTCCCCCTT CCTTAATAAG AAGAAGGACG TTGACGAAGC TCCACCTCCT CAATCAAACC
421 AACACATGTA CCCCCCTCAAC AAGTACAGTT TCCGTGAATA TACTCCTTCA TCAAAGCTTG
481 TGAATTGGCG AGACCCCTTCA CAAGAAAAAC AGGACAAGAT CTTACAAGAG GAAGAAGCTC
541 GCGCCCCCTAC ACCCACTCCC CAAGAAAAGG AACCAGAAGT AGAAACTAAA GATGATGTTG
601 TCATCGAGGA AGAAACTGCA CCAGAACCAG AACCAGAACC AGCCCCAGTT CCAGACCCAG
661 ATATTCCTCGC AATAACTGCA ACTACTACTA CTACTACAGT TGCAACACGT CACGACGATT
721 CTTCTACAGT ATTTCTCAGA AATGTTATTC TGAGTATCGT GTTTTGGTTT CTGGGTGTTT
781 ATTCTGCATT ATTTGCAAAA TGATTAGAT CTAAGAAGGA ATAAATAAAA TGGTATATGA
841 AATTTAAAAA AAAAAAAAAA AAAA

编号: C018

长度: 513 bp

碱基对组成: 162 A 119 C 103 G 129 T

1 CGATAAACA ACAGGTCTTT ACGTTACATT GACGTACCTC TTCATCAAAC AGAAAAAAAA
61 TGGCCACCAC GACTAACACT CTTCCTTTTCG GCAGGACCGG AGCCAGGCC GCTGGCCCTT
121 CTTACACCAT GGAAGATCTT GAAGGCTCCA TGTCTATGGC TCGCATGGGT CTCTTTTGA
181 TCGTTGCTAT CTCAATTGGT ATCCTCGTCC TGGCCGTCAT GAATGTATGG ATGGGACCAA
241 AGAAGGACAG CGATCCTGAC ACTGATAAGG ACACCGATGA TGATGACGAC ACTGCCAACG
301 ATAACGATGA TGAGGACAAA TATAAGAACA GGACCAGGGA TATGATGCTT CTGGCTGGGT
361 CCGCTCTTCT GTTCCTCGTT TCCGCCGCCA CCGTTTTTAT GTCTTACCCC AAGAGGAGGC
421 AGTAAAAATA TAGAAAACAC AACATCAGGG ACAAAAATTA TAATTAAAC ACCTTTTATT
481 ATAAATATA ATTTATTTGA AAACCTAAAA AAA

编号: C019

长度: 129 bp

碱基对组成: 50 A 32 C 14 G 33 T

1 AGCAGCAGTC CTCCTCCTT TTCTCCTCCT GCACATAAAA AATCACGTCT TCCGGATGAA
61 GGCGAAAAAT GTACACTCTG TTAATTTTTT CAAACAATAA ACTAACCACC TTGTAAAAA
121 AAAAAAAAA

编号: C020

长度: 234 bp

碱基对组成: 113 A 37 C 32 G 52 T

1 ACAACCTCCA CATCTCCTTC TAATTCTAAC ACACAAGAAA AGGATAAAAA TAAATAAAT

61 ATTGATGCTA ACAAATTTA TTCAAGAGGT CACAAACATG TACCAATATC AATTGTAAAA
121 AGCACGTTAA ACAAAGCGTT AAAAATAGCA GGTATGTCTG CTATGAGCAA AGAGCAAGTG
181 TTAACAATGT ACCAATTAAT AAACCTTAGG TAGGAAAGAG AAAAAAAAAA AAAA

编号: C021 长度: 587 bp
碱基对组成: 220 A 115 C 102 G 150 T
1 ACTTGAGATT AGACACTATG TCATCTCTAT GGGAGGTGCT GCAGTGACAA AGATTTCGGA
61 TGAAGATTG GAACAATTCA CGCCTGTAAG AGGTGCTGTC TCTGTCACTA CAGCACCTAA
121 TGATAAGCTA CCTGTAGGGG CACATCAGAC ATGGAAGGAT GAACAAACAC TAAAAACAAA
181 CACTAAACGT AATAGTCTAT ATGACTCTTA CAATTCAAAA AGGAATAATA GGGATAATAA
241 TAAAAATAAA AATCGTTTAT TAAACTATC AGATTTTAAAT TGGAGAACAC CCAATATCTC
301 TATTCAAGAA TTTAATGCAA ATAAAGATGA TGTTAACAAG AAGAGGTACG CAGAAGTCGT
361 GGCCTCAGCT GCTCCAAAGT CACCTTCACC AACGAGCAGC AGCAGCAGCA ACACCAACAG
421 CAGCAGCCCT CCTCTTTCAC CGCTCTCACC AACAGTGAAG AATAGTAATA ATAAACCATT
481 GTATATTCCCT CCCCATAAAA GAATGACCAC TACTGCTGTT TGACCAATTT ATGGGTTATT
541 TTATAATGTT GTGTGATATT TTATACAATA AAAATATATA AGAAAAAC

编号: C022 长度: 1060 bp
碱基对组成: 270 A 235 C 300 G 255 T
1 AATCAATTAT TTTTATTATT GAATTTACAA TGTCTACAGT ATACTGCAAC AAACCTTCCC
61 TTTAATCGGT GTTAACCTTC CCAATCTTTA AATGCTGAGG ATGCATTATG AAGTCTACGA
121 CGAAGGACAC TCGACCACAC ACGTAGCTCC ATCCTCGCAC TCCCGCCTTA CTCTACTGAA
181 GACCTGGTTG TGCGGGCAGA GGAAGTTCGA CATGGTGGGG GCGGTGCACA GGTAGAACCCT
241 GTGGCAGTCG GTGGGGTCCG GCACGCGTTC GGAGTCTGG GTGCAGTGAG GCTCGCAGAT
301 GTTGCACTAG TTGTAGCAGA GGGTGTCTGC GTTCTGACAC TTTCCCGTCA AGTAATCGAA
361 GTTAATGTTA TGAGTTGGGC ATTCTTCCCC GAGCAAGTTG TTATTCTGCA GGCAGACGTA
421 GTACCGGTAG CACTTGGTCG GGTGAGGCGT GAGCTCTCCT GGACTGCTGC AATGTGGCTC
481 GCACGGGTTG CACAGGCGAG AGCAGAAGTC GCTCGGAGCT CCGGCTATGG GGTGCGCAGCG
541 AGGCGAGGTG TGGTGCTCGT TGAAGTAGTG GCGGTCGGGA CAGTCCACGG TTCAGACGGT
601 AATAAGATGC CGTCGCCAGT AACGTCGAGG CAGACGTAGT ACCTGGTGCA GTCGGTGGGG
661 TCCCGCACTT TGGTTCCGGG GTCCACGTCC GTGCAGTCCG GGGCACAGAG CTGCACATTC
721 GGAGACACCG CGATGAAGAG GAAAAGGAGG AGGGAGCACG CGTGGTCAAA CAGATACCAG
781 AAATCATGTC TGATATGACC AGAAACATCA TCGTCGGCTT GGCCGTTGTC GTCATCGCAT
841 TGAGCATGGT CGCTTTCATG CTTTCTGTTA CTCCTGCACT TACCGGATTC CTCCTAGGTT
901 TGGGTGTATC AGCACTAGGA GTTACACTCT TTGGATGTCC CACTATGAAA TCTCCAGGGG
961 GAGGAAATGC TACAATCAAC CCCGTGGCAT AAAAAGGTGT TAAAAAAA TCAATAAATT
1021 TGGTAAATAA TAAAAAAA AAAAAAAA AAAAAAAA

编号: C023 长度: 650 bp
碱基对组成: 250 A 116 C 130 G 154 T
1 GGAGGATTAA TTTAAACCG CCAAGTTGTT GGACAAGAAC AAGCACCACC AATAAACACG
61 TCGTCGGATA CTAAAAAAT AAGACGTGAT GCAAATATTG AACCAATAAT AGGGACGCCT
121 TATAGTGTA TTAAGGCAAG TAAAGGAGTA TCAATTTTCA TACTGGATGA TTTCAATGAG
181 GATAGTCCAG AAGATTTTCG CCTTAAAACT TCCATCATCA ATGATGCCAT ACGAGAAATA
241 GGGCAACGCA TGACTTATAC AAGACCTATA TTTGATCATC AAACACAGAA AAATATACAC
301 TACAGTTTCA CTAAAATTAT TCTCGAAGGA TCAGATTTAA AGAATGGACA ACGTTCAGGA
361 CAATCTTGGG CTCCTTCTTC ATCATCCTTG ACTCTGGCCT CCGATGGAA TCTACCTTCT
421 CTGGAGCTTT TATATAGAGA ACTTGCCACA AAACAAGTAG AGAAGGAAGA AGAAGAAAAG
481 AGCGAAAGGG AAGAAGATAA AGGACAAAAA CTTAATGAAA AATTATCATT TGTCGTGAAT
541 AAAGCTATCG GAACTATCCA ACAACAACAT CAATATTCTG AAAGGGGAGG AGGAATGAAG
601 AGGTATCAGC AACACTCTGC TGATCAAGCT AGTAATGGTG GCATAGATGA

编号: C024 长度: 365 bp
碱基对组成: 153 A 53 C 52 G 107 T
1 ATACGCTACA AACAAAACAG AGGACTGTTT TTGTAGTTTA CTCCCCAACT GTTATAATGT
61 TAAAAAGGCA TCAGACTATT GGATAAGCTC TGCAAGCACA GCTAAGGAAA AAACGTACTT
121 GTTTATTGCT AATAAAAATG ATGAAAACAG TTTCTTCTAT AACTTTGAGG AAGGTGTTGA
181 AGAAATTGAC CTGGACATTT TTATGACAAT AGATTGTGCA CCTAATCTTC CTTTCATTAA
241 AAATTTACCA AGACCTATTA CAGATAATAA TATAATGGTT GCACTGTCAT AACACTAAAA
301 ATATTGTATC ACATACAAAA AAAGGTATAA ATAAAATTGC ATGATATATA AAAAAAAAAA

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361 AAAAA

编号: C025 长度: 624 bp
碱基对组成: 222 A 115 C 111 G 176 T

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1  GTTTTCTTTA TTCTAGCAAT AACTGCCTTA GCTGTCGCTC TCTATATACG ACATGCTTCT
61 AAACAAGAAA AATACTCCAC TTCTCATATC AATGAACAAT TACTGCCAA ACAGTTGCCA
121 GTCACCTACT TGTCAAAAAC GGGTAAATTA AAGGACATGC ACTTGACCCA TTCCGATTTT
181 ATGGCATATG TTGATGTGCA CAATAGAACA AAAACTCTGA AGCACCCCAT GTGTACTGAC
241 GAGGCTGGCT GGGCCCACTT TTGCCTGCTG GCTTCTGCTG AAGCTTATCG TCGCATCCGT
301 TATGGGAGAG GAGAATTTGG ACCAGAAAAA CATTCCCTAG CTGAAACTAT CCAATCGACA
361 GTACAAGATA TGTCGGAGCC ATATATAACC CACATCTTCA AGAAGAACAC GGATGTTGAT
421 GGACACGGAA TGCAATCTGT TTTGGAGAAG AATAGGAATA AAATCAGAAT GGGTGATGGA
481 AAAACGTCAT CAGAAACTTA TAATCTTAGT GATAAGTCTA TATCTATTGT TGGTGATAG
541 GAATAAAACA ATGCAATTTT TATACATGTA TAATCTTTAT TGTTACTAAA ATAAAAATAT
601 ATAAATATA AAAAAAAAAA AAAA

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编号: C026 长度: 679 bp
碱基对组成: 244 A 164 C 110 G 161 T

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1  TTACGATCTG GCCAATGTTA CCCCTCAAGT CACAAAACCTG GTAACATTTT CTGGTCCAAC
61 CTATGCTAGT CCGCCTACAC CCAGGCCAGT TGCCAATACA CCTCAACAAC AACCAACAAG
121 TACAAATAAA GAGGAAGAAA GTGTCTATAT GCCAATGTCG AGCTGCTCGT CGTCATTTTC
181 TTCTGACAAT AGTCTTCCTC TGCCAACACC GCCGCCATCT CCACCTAGAA GCAATGGCGG
241 TGATTACGTG TCATATGTAA ACGGACGACA TCTGAAGCTT CCTTCAAACC CACCTTCTCC
301 CATCTTCAAT ATCAAGAATG AGGAGGGAGA GGATGATAAT GTGGAAGAAC ATGTCTACGA
361 ATACGTGCCA GAAGTACCTC AACAACTCTC ATCTATCCAG AAGTGTATCC AGGAATTGAA
421 GGAGATGAAA CACAAGAAAA ACACCCTAAC CAGGAGCAGT AGTAACAACA ACAACAATGC
481 TCCACGTATA ACCCAAGTTA CGTTTAAGAA ATTCCCACCT AACAATAATA ACATGTGGGA
541 GAATCATGTG TATGGAAAACA CTACAATTGT GTCTTCCACA CCTTCTCCTA CCTTTATTCC
601 TTCACCTAAA AGTATCATAA GGAATTGTC ATTTAAGAGG AAACAATAAA ATATTATATA
661 AATTAAAAAA AAAAAAAAAA

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编号: C027 长度: 537 bp
碱基对组成: 197 A 62 C 110 G 168 T

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1  AAAATTTGAA GATGTACATT ATATAGATAT CAATTTTCAG TCCTTTGTAA GAGAACAGAT
61 AGGTTTAAAG GTATTAGGTA AAAATGATGT CCAAAAGAAG AAGAAGGAAG AAACCCCTTT
121 CTTTGCACCC TTTAATAAAT CTAAATAGG AGGTGAATGC ATAGAAGATT TAAAGTATGA
181 TTCTGAGTCT GTTTCTATTA TAAGAGATGT GTTTAATTTA TTGGGTGAAA TGCCTACTGA
241 GGATGTAAG ACATCAAGAA GTTGTATAAA CCCTTCCCAC AATGATACGA ATCCTAGTAT
301 GAGGTTAGTG TTTCGTCCCA TGTACTGGAG AAATTCTAAG CTGGTCATGG ATAAATTATC
361 CAAGGAACAA GACTCGGCTT TGATTGAAAA GTATATGGGA GGAGAACATC AACATTGTAT
421 CATTGGAGGG AGAAATGTAT TATTGTATTG TATAACTGCA CTATGTTTTA GCTCTGATTG
481 TGGATTTAAA AAGATGTTAA CTAATGATGA AATAAAACAA TTGATATGGT AAAAAA

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编号: C028 长度: 597 bp
碱基对组成: 196 A 127 C 126 G 148 T

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1  AAAATACTCC TCAACTTCCA ACAAGAATGG GCTCTGCTAA CTTGAACGAC CGAACTCTAC
61 TCGTGGAGGA AGGGCAAGTA AACGACTACG GGTCTACCAA CAAGAAACAA CCAGTGTGCT
121 GTCACATTTG CTATCTAGGA AGAGGAGGAA GAATTGCATG TGTATCGCA TCTGTTCTGG
181 GCTGCGTCCT CCGTCTGGTG ACTGTCATGA CTTTGTGTAT TGTGGTACTG GGAAGTGCAC
241 CAGTTAATTG TGATGTGAGC CCACAGAGCT ACTCGCCGCC GCCGCAGCCG CCGGTGCGAT
301 TTCATCCTTA CCATTCTTCT TCCACAACCA CCACTACTTC CACTACTACT ACTACTACAC
361 CAACTCCACC AGATACTAAA AAAGTTGACG ACGACTATGA TGACGACGTC AATATTGGAG
421 GGCAATCAGT TACTGTGAAT AATGGAGGTG TTTTCATCAA TGGAAGAAAA CTCTCAAAAG
481 AAGAAGAAAA AGCAATGGGT ATCAATACAG ATAATGGAGG ATTTGTTTGG AAGAATGGTG
541 TTTTTTCTCA ATATGGCAAA AAATAAAATA TGGTATATTA AAAAAAAAAA AAAAAA

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编号: C029 长度: 1212 bp
碱基对组成: 424 A 187 C 277 G 324 T

1 CGAAGAAGCA GAAGAAGAGG ACGAAGAAAA TGGTGAAAAC GAAGAGAACA AAGGTGACTG
61 TGTCACGGAA AAAAAGATCC CTGGACGAAG CACTAACAAG GATGTTGGTG AAGAAACTAA
121 AACAAAGCGAG AAAACGGAGG GAGAAAGAAA GGGCTCTAAG ACGGCAAAGG GAAAGACGGA
181 GGAAATTGCT AGTTCGTTGA GTAAATGTGG GAAGAAAGAT GCGAGAGATG TCATTCTTGA
241 CCGTTTACTA AAAGCAACAC ATTCTTCTTG CACCAACAAT GAAGAGAGAA CCAGAGTCTT
301 ACAACAATAT AGCAATTGTA CATTATCTTC CTATATAACT TCAGTCATGA AATTGGACCA
361 AAGAGTAGCA GACCAAATGG AAAATTTAAT ATCTCAATTG GATCAAATAC GTAATCTCTC
421 CAACAAGAAG AGGCAAGAAA AGGGAGGGCC TTTTAAGTCT GAATTGGACG CCATGGTTGC
481 TGCAGTTAAG GTTAAGTTTT TCCCAGTTT AGATGCGTCT AGAAAATTGA CTCAAGACCA
541 TTGGAAAAAG TGCCCCGTGT CCATCCCAGA AACGCGTGAA GAAAAACCAT TAATGGGTGT
601 GCCTTTTGAA GTTGCACTCA ATTCTCTAAT AGGAAAACAC AAGTGCACAG ATACATGCGA
661 CATGGCTTGT TGTCAATCAT TGTATTTTGT CCTCTTGTAAC ACGCTAGCTT TAAAATTTGA
721 GAACGAAAGA TTGGCCCGGC AAATTGGCCT AGATGACTCT GTAGATTGA TGGCTGAGAT
781 GTTGTTCCGA GGGGATAAAC TATTGGCCCA GGAAGTGTTA AAAAGGGTAA AAGATGCTCA
841 AGATAGAAAG TTGGTGAAAT CTTTATTGCC TTTAAATTAT AACCATGACA CAAATACAAT
901 TATATTTTTG TTTGAGTCTT TAAGGTTTGC TCAGAAACCT GTAGCTGGTA TGAGTGTTAG
961 TGAAATAAAA GACGCTGTTA GAGGTCTGGC CTTTCTACC ACTACAGGTA CTGTGTGGAA
1021TTATACTGAT GAAAGATTTT TTGGACCATT GTATAACATG GATGAACITT GTAACGAACG
1081TGTCATGGA AATTGTAAAT TGTCCTTTAT AACTGGTATT TATCATACGG CAGCAGTAGA
1141ATTGGCTGCT GCATGCTAT CTTGTGTTTT GTAAGAAATG ATAATAAAAA ACATGTATAA
1201TTTCAAAAAA AA

编号: C030

长度: 403 bp

碱基对组成:

142 A 87 C 69 G 105 T

1 TGAAGGAAC GTAAAGCGTT GGTATAAAAG GTGAGCGTGG ATGTACCTGA GCCACATTAG
61 ACAAAACCTT TTGGTTGAAG AAAGACGTGC TCTCACCTTC AAAATGTACC ATCATAACAA
121 CAATAATCAG CACTCCTTTG TGAATTGCCA GTGCAGGCGA ACTTCTTCCT CCATCAACTG
181 TTCAAGCTGT TCCCGTGAAA CTTTCAACTC AGTAAAGGCT ATCCAGTACT TCAACAAAAC
241 TAGCAGAAAT AATACTGCAC ATCATTTCAG ATGCGCGGCT TCAAAGGATC GCAACTATTC
301 TTCTTTTCGAG TATGCTGAAA CGGCAGTTGC TGCTCACAAT ATATCTCAGT GGTGATTTCT
361 ACGACTAAAT AAAATATAAC AAACCTTTAA AAAAAAAAAA AAA

编号: C031

长度: 548 bp

碱基对组成:

189 A 75 C 132 G 152 T

1 GTTCAAATTA TTGTACAATG AGAGATGAGG GTGGTTTCAG GCCCCGTTTG ATCATGTCTG
61 CCTACGGGCC AACATCTTAC CCTATCATCT TCAATACTTT ATATGATCAA TTCAATGTGC
121 AATATTATCC ATGTGTTTCT GGAGTTGTTT TATCTTTTAT TGGCGATGAT CAGTTAGCAC
181 CAGAACCAGA ATCATTAGTG GACATTGTTG TACGTTCTAT AAAAAATCCG TCTATTAGAA
241 TTTTTTCTGG TGATGGTGAA ACAGTATACC AGGATGGACG TAGGGTCGAT GTTGGTGGTG
301 AGGGAAAGAA TCAGAAGTTT AACCGAGAAG AGCGCACCAT TTTAAATGTA TTGAGGATAA
361 TTAAAGCATA TAATGAAGAA CGAATGAAG AAGATGAAGA TGAAGAGGAA GAAGAGGAGG
421 AAGAAGAGGA ACAACAAACA GCAGCAACAG TGACAGTAGA AAGTGATTGG GATCTCTCAC
481 TAGAGAGGGG GGAGAATTGG GTGTAGTAAC TTATTTGAGC AATAAAAAATA CAACTGAATT
541 TTAAAAAA

编号: C032

长度: 812 bp

碱基对组成:

242 A 187 C 172 G 211 T

1 CTCTGTGGTT TCACGAGGTT GTCATACCA AAGGTAACCT TTTTTTTTGT CCTCGCCGAC
61 AAAACGACAT CTTAATAACC AAGCAACGTT CGATAAGAA AAAAATCGT CATGGATCTT
121 TCTTTCACTC TTTCGGTCGT GTCGGCCATC CTCGCCATCA CTGCTGTGAT TGCTGTATTT
181 ATTGTGATTT TTAGGTATCA CAACACTGTG ACCAAGACCA TCGAAACCCA CACAGACAAT
241 ATCGAGACAA ACATGGATGA AAACCTCCGC ATTCTGTGTA CTGCTGAGGT TGGATCAGGC
301 TACTTCAAGA TGACTGATGT GTCCTTTGAC AGCGACACCT TGGGCAAAAT CAAGATCCGC
361 AATGGAAAGT CTGATGCACA GATGAAGGAA GAAGATGCGG ATCTTGTCAT CACTCCCGTG
421 GAGGGCCGAG CACTCGAAGT GACTGTGGGG CAGAATCTCA CCTTTGAGGG AACATTCAAG
481 GTGTGGAACA ACACATCAAG AAAGATCAAC ATCACTGGTA TGCAGATGGT GCCAAAGATT
541 AACCACATCA AGGCCTTTGT CGGTAGCTCC AACACCTCCT CCTTCACCCC CGTCTCTATT
601 GATGAGGATG AAGTTGGCAC CTTTGTGTGT GGTACCACCT TTGGCGCACC AATTGCAGCT
661 ACCGCCGGTG GAAATCTTTT CGACATGTAC GTGCACGTCA CCTACTCTGG CACTGAGACC
721 GAGTAAATAA ATCGTGCTTT TTTATATAGA TAGGGAATTT TAATATTACA ACAATAAGAA
781 AATAAAACAA TTGAGGAAAT TTAATAAAAA AA

99-11-10

86

编号: C033

长度: 625 bp

碱基对组成: 252 A 100 C 139 G 134 T

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1 AAGTAAAAAT GGAACAAGAA GAACTGGTAG AGGACTCGTC AAGTAACAAG CGCCCCAGAA
61 TTAAGGAAGA GAAGGAGGAA GAACACAAAG AAACACATCA CCTCTCCCTC CCATGTAAAG
121 AAGAAGAAGA CGATGGTGAA GAAGAGGAAT ATGAGGAAGA GGAGGATGAG GAAGAATATG
181 AAGACAGAGT GGACGACGAC ACTGCAGAGA AAATGGAAAA TCTTTTGGTG CAACTGGACA
241 ATACTACCAA AAACATCAAA CTGAAAAACC CCTAAGGGA ACATGACATG GCAGTTTCAC
301 ACTATGAGCA TGAATTTGAG GTACAAAATA CTGTCAATTT TAGTTTTGGA GTACTATCTG
361 ATATTGGGTT CCTGATCAAC CGTGAAGCCG TTTCTAGGTG GGGTAATACA CCCCCACCAA
421 AAGAGTTTGG CGACATGGAG ATTGGATCTC TTACAGTTAA CCAGATGCTC CACAAGTGTG
481 ATAATTTTGT ACAGGCTGTA GTACAGAAAG TGAAGGAAGA TATAACCCCT TCTATTGAAG
541 TTACAATAGA TAGTTTGATT GATGATCCTT GTTGGTAAAA AACAAATAAA ATATACCTAA
601 AAATTAAAAA AAAAAAAAAA AAAAA

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编号: C034

长度: 476 bp

碱基对组成: 147 A 94 C 107 G 128 T

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1 ATGATAAGAG TTTCTGGTCC TCTTTCGACA AGTCTGTGAA GCCTTATTGT GAGAGCAAGA
61 AGAGTGCTCT TATTAATGCT CTATGTGAAG ATAATGTGAC TGCCAAGGTA TACGCTACTG
121 TCCATACACT GGCTATTCCA TTCTGTGAAT CTATGCCCAT TAACCACATT AATAACACTA
181 CTCCTTATGG AAGCTACAAG ACCTTCAGAA TTAGTTTGCC AGGGAACCTT TCTGGGCAAC
241 ATAACGACAT CAACAACAAT TGGAGATCTG ACATGTACAC TAAGATGGTT GAAAATCTTC
301 TAAAGAGGGA AGTTGTTGAG AACAGACAC ACAGCCGCAG ATACGTTTCG AACCTTATTG
361 TTGACGGAGG CGTGGGAGAA AATAGTGGA ACTACTTGAA GGTGCACGAG AATAATGAGG
421 ATATTTTGGG AAGCATTGAA GCGAATTCAA TGTCTGCCAA GACTGCTGCT GCCGCC

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编号: C035

长度: 962 bp

碱基对组成: 360 A 156 C 187 G 259 T

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1 TTCGTCTTCT GAAACTCCTA AGACTTCCAC CGATACTGGG GAAGAAAGGA TTAAAGACAT
61 TGTAATGCTC CTAGATAATA ATGGCGAGTG GTTGTCTTCC TATATTGATC CGATTATCAA
121 TAATCACATC TCACGAAAAA CGGCAGAAAC TGTCCAAAAA ATCAACCAAG AAGTTGATGA
181 ACGGTACGAT AGAAAAATAG CCGACAAAAT CAACGAAATA AAATCATCCA TCTTTACAAG
241 TGCTCAGACT ATGTATGACC AATATGCAAT AGACACATTT CAAGAAGGAA AAGGAGCCAA
301 CGGGACTGGA CCAGTCATGG GGCCAGTGAA CACGGTTATC GATACAACTT TAAATAAAAT
361 GAGGGGAAAT ATGCTCGAAT ACGCTGAAGA TATGTGGGAC GGAGATGACT GGAACGATT
421 TTCCAGTTCT ATGACAACGC TTGAATTTGA TCTAAGTTAC TCTGATTTAA CTATGATGCG
481 TGGTTCTGAC GGGTATTTTG CATTCCCTTT CCGTGGAACA AAAAAGATAA AGATGGACGG
541 TTCAAGAAAG AAAGAAGACC CAATTAATTG TATCATTTCA GTAACATATC CAAACAAAGT
601 AGGGGATGAG TGGGAAGAGG GTAAAGAACG TGAAGTGAAT TTTAACCTAG AAAGAGTAGA
661 CGACTATGAA AGAGATATCC ATGTTTCAAT TTTGTGCATG TTACATGCAC AACTTGATAA
721 TTTCGAACAA GCATTAGGAG AAAATGCAAA CTCTTTTTAT TTTAAAAAGG GGCAAAGAGT
781 CATGTTCTTA CCCAAGAAAT CTAAACTGTT CAATAGACCT ACTGTAGAAG ATTCTGATAT
841 GTTTTCTATA ATATTCCAC CTGCATCTGA CCAAGATTTT GCAGATGATA TTTATTATCG
901 AATAATTGTA ACATGTTTAT AATAAAATTT GTTGAAATAA AATACAGTAA TACAAAAAAA
961 AA

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编号: C036

长度: 335 bp

碱基对组成: 127 A 70 C 68 G 70 T

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1 CGAGAACAAA AGATTGTTGT CTAGGAACAA AGAAACATTA AAAATGGTTG CCCGAAGCTC
61 CAAGACCAAA TCCCGCCGTG GAAGCAAGAA GAGGTCCACC ACTGCTGGAC GCATCTCCAA
121 GCGGAGGAGC CCATCAATGA AGAAGCGTGC AGGAAAGAAG AGCTCCACTG TCCGTCGCCC
181 TTCCTCAAAG AGCGGAAAGA AGTCTGGAGC CCGCAAGTCA AGGCGTTAAT TCTTCCCTGT
241 ACAACAATA TGTTATTTAA TTGATTTTTT TTCTTCTGAA TAATTGGAAA TAATAAACA
301 TCCATTGAAA CTTAAAAAAA AAAAAAAAAA AAAAA

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编号: C037

长度: 225 bp

碱基对组成: 78 A 52 C 43 G 52 T

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1 GGAGCTCTGT CATTTCTGGT GCAATCTGAC ATTGCTCGA CCCAGCGGTC CACCCTCCAA

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61 ACTTGACATC AGACCGACCC AGCGGTCCAC CCTCTAACT CGAGCGACCC AGAAAAATTT
121 TTGAAAAGTT TTTGAGATGG AGGAAGAGTA AAATTCCTA GTGTAAACAG TACCAAGAAG
181 ACCAATAAAT TTAGTGGTAA TAAACTACA CATATGATTA AAAAA

说明书

对虾白斑杆状病毒基因组DNA序列及cDNA序列

本发明涉及我国、东南亚和其他国家发生的对虾爆发性流行病的主要病原—白斑杆状病毒（简称“WSBV”）基因组DNA全序列的测定和对虾白斑杆状病毒cDNA表达序列标记（EST）的测定。

国内外有关对虾杆状病毒基因组DNA序列测定的报道不多。迄今为止，已申请专利、发表文章和存入公开基因文库中的序列仅有六项，测定的序列从420bp到2,424bp不等，均为小片段DNA。韩国的J.S. Kim等分别测定了2,424bp（wsu 92007, 1997）和420bp（wsu 89843, 1997）；日本的K. Mitsuo等测定了1,447bp（PN JP 1997201196-A/2）和1,461bp（PN JP 1997201196-A/1）两个DNA片段；台湾大学罗初芳等测得1,461bp（PMU50923, 1996）；美国L.M. Nunan等在J. Virological Methods [1997 (63): 193—201页]上发表了868bp，其他尚未见报道。上述已测得的序列总共不足10kb，且为DNA片段随机测定，未经系统分析，也无法确定其功能。由于对虾白斑杆状病毒基因组DNA超出300kb，因此，对基因组全序列及其完整结构的分析、表达序列的测定及其功能预测均为全新科研成果，为此特申请本专利。

上述白斑杆状病毒(White Spot Baculiform Virus, WSBV)，国际上尚无统一名称，另外的名称有：“对虾白斑杆状病毒(PWSBV)”，“白斑杆状病毒(White Spot Baculiform Virus, WSBV)”，“白斑综合症病毒”或“白斑综合症相关杆状病毒(WSBV)”，“白斑综合症病毒(WSSV)”，“白斑病毒(WSV)”，“白斑病病毒(WSDV)”，“日本对虾杆状核型病毒(RV-PJ)”，“皮下及造血组织坏死杆状病毒(HHNBV)”，“淋巴细胞核型杆状病毒(LNBV)”等。

本发明的目的在于测定WSBV的基因组DNA全序列，获得表达序列标记并通过生物信息分析处理，为进一步研究WSBV的复制、表达、增殖和感染机理奠定基础。根据已知序列建立早期、快速的病毒感染诊断方法，发展基因工程防治技术，构建转基因抗病毒对虾，开发抗病饲料，重组酶类和其他病毒特殊功能蛋白进行开发利用等，从而达到健康养殖对虾、培育抗病对虾新品种、提高经济效益的目的。另外，WSBV是第一个进行基因组DNA和cDNA序列测定的海洋无脊椎动物病毒，为研究其它海洋无脊椎动物病原体提供了先导模型和经验。

本发明中使用的WSBV基因组DNA是从感染病毒的病虾组织提取纯化的。由于体外培养的对虾细胞系尚未建立，研究人员无法获得病毒感染的合适材料，只能从感染病毒的对虾组织里分离病毒。但是，对虾组织成分极为复杂，又含有丰富的水解酶类，要获得纯化且完整的病毒颗粒难度很大，这就是国内外均未见到获得完整对虾病毒DNA的有关报道，也没有相关专利的原因之一。本发明是利用发明者研究成功的分离对虾白斑杆状病毒的方法 [发表在1997年J. Virological Methods (67): 1-4页]，从感染白斑杆状病毒的对虾组织中分离、提取和纯化完整的病毒基因组DNA并对此测序。本专利申请的内容包括以下几方面工作：

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一、通过构建WSBV的基因组DNA文库，测得WSBV全DNA序列，确定WSBV是环状双链DNA病毒。基因组大小为305,108bp。

用以下两种方法构建WSBV的基因组DNA文库：

1. 用随机克隆（“Shotgun”，即“鸟枪法”）的方法，以超声波断裂基因组DNA，取0.8—2kb左右的DNA片段，克隆到pUC18载体，以DH5 α 为宿主菌，构建随机克隆DNA文库后自动测序，共测定4,295个序列。
2. 用Sau3A1不完全酶切基因组DNA，选取5—10kb的DNA片段，以pBluescript为载体、XL-Blue为宿主菌，构建基因组文库。自动测序仪测序，共测定1,500个序列。
3. 通过计算机分析(分别应用UNIX系统中的InnerPeace 和DNAsis软件)拼接组合，最终获得全长为305,108 bp的WSBV基因组全序列。

二、构建感染对虾的cDNA文库，以地高辛标记的WSBV DNA作为探针，从cDNA文库中筛选WSBV的cDNA。测定两端的DNA序列，获得WSBV的表达序列标记(EST)。参照其基因组DNA序列，获得cDNA序列。

三、计算机辅助生物信息分析处理结果：

WSBV基因组DNA大小为305,108 bp，含有开放阅读框144个，其中52%与其它生物体的蛋白质相关。结果说明，本病毒是一种新的病毒，是迄今为止已知的最大动物病毒，也是最早测得基因组DNA序列的海洋生物病毒之一。

一种对虾白斑杆状病毒基因组DNA全部序列，共305,108 bp；白斑杆状病毒的37个cDNA序列。

本发明所述的对虾白斑杆状病毒基因组DNA全部序列，涵盖该病毒复制、增殖、感染所需的全部调控基因、结构蛋白基因和功能蛋白基因；调控基因包含顺式元件和反式因子基因；结构蛋白基因包括病毒外膜蛋白基因(含与宿主细胞相作用的各种蛋白基因)、核衣壳蛋白基因和非特异性DNA结合蛋白基因等；功能蛋白基因包括各种酶基因，以及修饰宿主功能的各种蛋白质基因。

本发明所述的对虾白斑杆状病毒基因组DNA全部序列，其特征在于白斑杆状病毒cDNA序列包括各种调控蛋白cDNA、结构蛋白cDNA和各种功能蛋白及其他多肽类的cDNA；全部阅读框包括前导肽、信号肽等。

WSBV基因组 全序列：

WSBV总碱基对数：305108 bp

碱基对组成： 92043A； 62482C； 62635G； 87948T

碱基百分比： 30% A； 20% C； 21% G； 29% T

环状双链DNA 分子量(kDa)： 188071.6

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1      GGATCCAGAC ATCACCCCAA CAATCGCAGA CCCGATTACA GTAGCAGAAG TTGGAAACCC
61     TGTCGTGAGG ATAAAACTC CTTATGTGA TGAGTTGAAT AAATTCATGA GATTCTCTAC
121    TAATTTCTCA TTTTAAAT ACGTCAAACG GTTTATGGCG CAGAGAGCTT CATCTAATAG
  
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181	TAGGAATGAT	ATGTCCGCTT	TCTTATTAGA	TTTGATTTTT	GAAAAATTGA	TAGAGTTTTT
241	ATTATCAACA	GGATGGAATA	GAGAAGCTCT	GGGAGGAACT	ACTGGGGCTA	TTCTTATGAT
301	CAGGACGGCA	ACTTGTCTGC	TAGCGCAATC	TTATTACCCC	CTCCCTGAAA	CCGTTGGTAT
361	GGACTTTTTG	CAAACACCTG	GGTTTGACTA	CAATAAATCT	TTCCCTAACA	ATGAAAGGTA
421	TATATATGAA	TTTCAAGCTA	CAATGTAAAT	AATTGGTTAA	TAAAATAAAG	GTATATTTTT
481	AAAAAATGTG	TTTATTTTTT	CCCAACCTTA	AACAGATCAT	TGCCAGGAGA	AAATCGCATA
541	CTTAACAGAT	AATGCCTATT	TGTATCATCG	ATGTCTTCGT	CAAACGTTGC	TCCAAACACA
601	AGTGTGTTGA	TCCTATTTTT	CTTCAAAACT	GTTGGTTTGA	AATATAATAC	AAATTTGTGA
661	GCTGAAAATT	CCCTTCCTGT	AGCATTTAGA	CCTGGAGACA	GTGAAACAGA	GTCCACTGTT
721	ATATCCCTCT	TTGTATTATT	GTATACTCTT	GCATACAATT	CTAATTCCTT	AGATTCCGGT
781	TTGTTTACAT	TTAGTGTGTG	GTCTCCGTCT	CCAAGTAAAG	ATGTGAGGAT	TATGTCTCCT
841	TTCTTTTTTA	CCAGTTCAGA	ATCGGACGTT	CCTTGGCCAG	CTACATATAC	CTTTCCATAG
901	TTCCTGGTTT	GTAATGTGCC	GTTTACAAAG	TTAAAGTGGT	TTCCTCTAGC	AACACCGTTA
961	ATGGTCAAGT	TTATTATTTC	AGATTCAACA	GGGTAGGCGT	CTTTATCCTT	CTTGTCCAAT
1021	TTCTTTGTTAA	GTTCTATGTT	GGTTACAAC	ATAGATATAA	CCACGAGTAT	CAATGTCAAA
1081	CCCGCCAGTA	TAGCGGCGTA	AACCCCCCAC	ATGTGCATTT	TGAAGAAAGT	TGTACAAAGG
1141	TCATGAGAGA	AAAAAACAGA	TATTAAAGTT	TGTTATATTT	TATTTAGTCG	TAGAAATCAC
1201	CACTGAGATA	TATTGTGAGC	AGCAACTGCC	GTTTCAGCAT	ACTCGAAAAG	AGAATAGTTG
1261	CGATCCTTTG	AAGCCGGCAT	CTTGAAATGA	TGTGCAGTAT	TATTTCTGCT	AGTTTTGTG
1321	AAGTACTGGA	TAGCCTTTAC	TGAGTTGAAA	GTTTCACGGG	AACAGCTTGA	ACAGTTGATG
1381	GAGGAAGAAG	TTCGCCTGCA	CTGGCAATTC	ACAAAGGAGT	GCTGATTATT	GTTGTTATGA
1441	TGGTACATTT	TGAAGGTGAG	AGCACGCTCT	TCTTCAACCA	AAGGTGTTTG	TCTAATGTGG
1501	CTCAGGTACA	TCCACGCTCA	CCTTTTATAC	CAACGTCTTA	CAGTTCCTTC	AGATCTTCCG
1561	TCATGGCTTT	AATCTTGTTG	GTTATCCCTC	GATCTACGAA	GAATCTAATA	TCTCCCTCAG
1621	ATCTGTTCAA	AACCTTCCAC	GACTCCATTG	GGTCCAGAGT	ATAATCTGAC	CTTTCTATGT
1681	TTTTGACAAC	TACAGGATCT	GGTTGAATAT	ATGCAGATGA	TGCATCAAAA	TCTACTTCTT
1741	CGCCGCTCAT	GCCTGTTTCT	AGTCTTGAAA	GGAGTGTGTC	CAAATCTTCC	TCTTCTTCGT
1801	CTTCTTCCAT	TTCTTCTCCA	CTATCTAAAA	ATTTCGTCTAT	ATCATTATCA	TCAAAGTCTA
1861	TGTCTATATC	ATCATCATCA	TCTTCCCCAA	GAGATGAAGA	AGGAGATGGG	GTTTCGTGTCG
1921	GGGGAGGTGG	AGGAGTAGGA	GTAGGAGTAG	GTGGAGGAGT	AGGAGTAGGA	GTAGGAGGGG
1981	GTGGAGGTAA	CAAACCTTCT	CCAGGCACAG	TTCTGTTCCT	TCCACCTCCT	GTATTGGACC
2041	CAGTATTTAC	ACTCGGTTGT	TCAAATTCAA	AAACTTCCTC	CTCTTCTTTT	CCGTCTTCTA
2101	CAGCACCTTC	CTCGTCTCTT	CCGTCGGCC	TATTTTTCAGG	TTCCCTTCGC	CCTAATACAG
2161	CTCCTTCGGT	GTCATCTTCT	TTTTCTTCTT	CTTTATCTTT	CTTTGTTTTT	TTATTGGATG
2221	TTGTAGTAGT	TTTATTGGT	CGTGACATGA	AAATCACACC	AACCACCACA	CCCACAAAAC
2281	ACACAAAAAG	TATGAGAGAT	AATAAAAGGA	ACATCATTAT	TATCCTTATT	TTTTTACATT
2341	CAATTATGGC	ACCAGAAAAA	TAAAATGATT	TGTACAAACA	CGAGTTACCC	CTCCACACGC
2401	CTGACCTCTG	CCGCGAATTC	TTCATACCCT	TCCATATTCT	TTGCTGCAAA	GGTCACGTCA
2461	TGTTGATGAG	CTACCATTTC	ATATCGCATA	TCTCGCCAAA	AAGATCCATC	CGCAACAGCG
2521	GCCGTGCATT	CTTCTTCAAT	GGCAGAAGTC	ATGTCAGCTG	TCATTTTTTT	AAATAAGATCA
2581	CGTAGTATTT	CCTCCCTATA	CAAACTCTATA	ACCTTCTGCC	TAAAGACAGG	CCTCTCTGCT
2641	AAAAGAGAAG	GATTTTCTGT	AAGCTGGTCC	ATGGTGTAAT	AAAGTGTTCA	TTTATCTAAC
2701	TTTTAAAACC	CAAACCTTTC	TAAAATATCT	ACAGATTCCA	GGTACTCTGC	CGCCATTGTT
2761	GTAATCATTG	TATTTGCCTT	GTCTATCACT	GCTTGTCTTT	TATCTTCCAC	ATCTCCCACC
2821	TCGTCTTCGT	GTTTTTTCCT	TTCTTCTTCT	AGAAGCCGTC	TAAAGACAGC	TTCTCTAATT
2881	GAAGGTATTA	GCCCCTCAAC	TACCTGAGAA	GCTTCCTGTT	TTACATCATT	CACAAATTCC
2941	GGCGATTGTA	GTACGAGCGT	GATCGCGCTC	TTGTAGATGT	CTTCCAAAAT	GTCCATTTTT
3001	GTTGTTTAGA	CCTAGATAGA	GAGTGGGAGA	CGCTATTAAT	TTTTTTGTTC	ATGTGGCTCA
3061	TGACCTCATG	TCCGATATAT	GTATTGGTTG	GGTGTAATAC	AAGTCTCTAC	AAAGCAATAG
3121	AAGGGGTAAA	AACAAAACAC	ACCATGGTGC	TAACTCTTTC	CTGTACGACT	AGGCGCGTAG
3181	CGTCTAGCAA	GGGGAATTTT	TCTAAGGAAG	ATGCGGTGTT	GGGGAACCAG	TTCCCCATTT
3241	TAAAGAAATC	AAACAACCTG	TCAATTGCAA	GACCTCCCTC	AATAGAATCT	TTTTCTGCAT
3301	CAGTGGAATA	AATATTCAGG	GAATGGAACG	AAAGTGGGGG	AGAAAAAATT	TTCGACATAT
3361	CTCAGAATGA	AGAAGAATGG	ATGGATATCA	TATCCTTAGT	GGAAAGTGTA	TATGAACCTG
3421	TATTTTCTAA	ATCACTTAAA	CCTGATAAAT	TGGCAGATAA	AACATGTCTA	ACCGCGGCTG
3481	CCTTTGCAGC	ACTAGCTTCT	GCCGTGGATG	AAAAATTGAC	AATCTTATCA	GGTAGTGATG
3541	GGAGTGTGCT	TCAACGTACA	ACAAAGGTTA	TGAAAAAGGA	CCCCAAAAAA	ATAGCAGAAT
3601	CTCTTTTAAA	TAATGAAAAA	TGGACATCTA	TTTTATTGGA	CAGGTTAAAA	ACAGCCAAGA
3661	AACCTCTAAG	CAGACGAGGT	GCACGTAAAA	CGCCCGAAAG	AGTAGAAGTA	CTTCATCGGT
3721	TGAATAAACT	CAAGGAGGCT	CCTCTTCCCC	ACCATCCGAG	CCTATTTGAT	AATTTTAGTG
3781	GAGGAAAAAC	ATCAGCAGTA	TCTGCTGGAA	CAGTCATCGC	ATCAGATATG	CATTTCAAAAT

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3841 TGGTTGAACA TATTTTAAAG GTCTCCTTTA GAAAATGGGG TCCCTGTGGA GATAAACTG
3901 AAAGCGGGGA AGAAGAAGAT GAGGAAGAAG AAGAAGAAGA AAAGAAACAT TCCATATCAA
3961 GATTCGTGCT TCAATTTATG AACGGACACA ACGGGCAACA TTATCATAGG CCCGAAAGTG
4021 CTTCTGTTTA CTTTGTGAT TATTATGACT ATTTGGCCTA CAGGAATCTC CCTAATGAGT
4081 ACAAATTATC GTCAATGCAT CCTGGCACAT TCAATATGGA GGATTTACCT TTCCGCCCTT
4141 TCGCAGTACC TTCAACTTAT AAGACAGAAT TAGAGTACAA AAGGTTTGTG CAATCAACAA
4201 ATCTTCCCCA GCTAAGTTTC GACTATGGGG AGTTTTTATG TTACTGTATC TTCGGAGCAG
4261 ATTGGTACAA ACACCTGGGG GATGTGGTAG ATTCTCTAGA AAATAGTTCC ATGATATCAT
4321 TTGATTCTCA GACATTGAGT GGTGTGTATA AGAACACTGC TAATTACAAA AGGTTGGGGA
4381 AGAAAAGAAA CGGAATAGCC GATTTGGCCG TTAGGAGTAT GGCAGAATTT ATCCGCACTG
4441 AAGCGCATAA GGCATTGACA GCAGAAGAGA TGGAAGAAGA AGAAGAGGAA GAAGAAGCGG
4501 AAGAAGAAGC GATGGACCAG GAGCCTGCAG AAGTAGACTT CCTTTCAGTG CCTCATTTAC
4561 GCCGTAAAT TCGTCAAGCT GTTCTGTGT TAAATAACTT TGTGGAGAAC GATCTTTCTA
4621 TATTGGTTTC TAACTTCAAG AATGTGTTAA CCGATGATAC TGTATCAGGA ACAGATACGG
4681 ACAACTTTGG TTCTAGTGGA GAATTTGAAG CATTATCTTC CCATTTATTC CTTTCAAGAA
4741 TATTGGATGA AGTGCACATT CTTAGGAATA CTGATATACA AAGAACCCTA TTTTCAACGC
4801 ACGTGTCTCT GTCGGATAAA TCTCCCCCTA GCCGTGTCCG TGGGAAGCAAT GTCAACTTTA
4861 ATAATAACGC TGGGAACATT TCTTCCCTGC AAACGTATGG CGGTATAGAA GAGTTGCCTG
4921 AAAATGTACT AGTCGGTTTG TCCGGAGGAT TTGAAGATAC CGACATGTAT TCCGGAGAGG
4981 ATGTTGTTGT CGTATGGGAT GGTTGTGATG GAGGAAAAGT GCTAAGTGTC ACCTTCAATT
5041 GTGGTGATAA TTTTATCCAG CTCCATGAAA AAACAGCAGA AACTTTTAAG GATGATACGG
5101 ATTTAGTTGA ACGAATAAGA GATGTGCTTC AGACTGCAAG TAAGACCGGA AACCTTAACA
5161 AAAAAGCATA TTCAAGGAAG AACATCTACG CTGTTTTGCG TGAAAATGGC ATTGAGCGCC
5221 CCGGGGACGA TTTTACAGAA AAGGGGATTG CTCTCAAGGA TAAAACAAAT CAACCCCTC
5281 CCCCTGCAAG AAGTGCCAAG ATAACGGTTG AAGGAGTCAA GGGATTTTTT AGCGGTTTTT
5341 GTGACATTTT GGAGACGAGG GCGCTACCA CATATAGTGC AGAAACCTTC AGAGATTTAG
5401 GCCAAGGCAT AGTAAAAGAG ACCGAAGGAC TGACAGCTGC AACAGTGGCA GAAACATCCT
5461 TCTCTGAAGG TTTAGCTGAA AGTTTAAAGT CTGATGCGAA TCTAGGTCTA GAATTTTCAG
5521 AGGACGCCAA AACGGTTGTA TTCAAAAATG ACACCTCTCG TTCTTTATTG GAAGAACTA
5581 GGGCATTAAG AGCAAACAAT ACTTCTTTTT CGTCGTTTGC AAGGGACATG GGGCTCCAAG
5641 TTAGTGCCGA TTTAGATGCT GAATTTGCTG CAGAGATGAG AGAAACATAC CCCGATGCAG
5701 CCCTTGAACA AAACCTGAAA GATCTCGACA AATTCGAAGA GACTATACCA GAAAGTCAAG
5761 TGAAGAACT AAAGAAAATA GACAGTTATT TGACAGAGAA TCCAGAAAGG GCTGGCAAAG
5821 AAATTAACGA CACTGAACTG TCAAAGGCTA CAGATTCAGT ATTGGGGAAG AAAC TAGGCA
5881 ATGCAGTTAC AGTGTGATG AACAACCTTG GAAAGGTTAC AATTGTAGTA GGGGCTTCTG
5941 TGGTGGCCGG GTTTTTAGGT CCAGCCGCTG TCGCCCTGGT GCATGCGTCC AGAGGGGCAC
6001 ATCTCAACGT CGTGGACCAC ACCAGCCCTA AAGGTGTCAT CAGTTATAAA ATTGTGGACT
6061 TTTCTTGTGC AGATAGAAAC ACCGGATGGG CTAAGCCAAC CAAGCACCCG TTCAGGGAAG
6121 AAATAGACCA TGTTATCGCA CTAGATGCAT CATTCTTAAC TGAAAATGGA GCATATGTAT
6181 TCCCTGAAGA CGGAGGACCC AAATCGAAAT ATAAGGCCTA CGCACCATC TGTGGAACAA
6241 AAGATGCTGC TCAAGGAGAA TGTGGATCTT GGGCAACATT CGACGACCCG CATTCTGTAT
6301 TGCCTTGGGT GGCAAGCATG AAAGATTGTC CTAAGGACA ATCCCTCTCC TGCGATAAAG
6361 GGATGTCCAC TTTAAAGGCA GTTCTTCCG TTCTTTTGTG CATAGGAAAG GATGTTGCAG
6421 AGGTATTTT TGAGTTGCA GAGGACGCCG TGGTGGGGT GGCAGCAAG GCAATTTTCTG
6481 CTGTAATAAA TAACCCCTTG TTCATATTTG GAGTGCCCTT TGGATTTGGT ATAGCTGCTA
6541 CACGCCTCAA TCCATCCAAC TGGAAACTG GCCTCATTGT ATTTTCAATA CTACTAGTGG
6601 TCATACTGAT AGTTCGCTT TTTGCAGGGT CGGGCCCCG AACCCTGAAT TGGTTTGGTG
6661 CAAAGAATTC AGCTAAAAGG AAACAGACTG AACAATTCGA AGACGGGGGA GGAAATCGTT
6721 CAAAAATAGT ATTTGGCAGAA AAGGACAACG CCAATAGTAA ACTTCAATCG AGGAGGAATG
6781 AAAC TGGGCC CATGAGATTA GAGGAGCTTC CTGGGCATGA AGATTTGCGC CCAGTTTCT
6841 TCCCTGCCAC AACAAATTAT TCCAAATCTG CCAAGATTCT GGGCTACAAA TCTAAACCCT
6901 TCAACGACTT TTATACAAA ATAATAACA CAGACATCAT AAAAATGGAT AGGTAAAATA
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7021 TAAAAATTGC ATTGTTTTAT TCCTATACAC CAACAATAGA TATAGACTTA TCACTAAGAT
7081 TATAAGTTTC TGATGACGTT TTTCCATCAC CCATTCTGAT TTTATTCCTA TTCTTCTCCA
7141 AAACAGATTG CATTCCGTGT CCATCAACAT CCGTGTCTT CTTGAAGATG TGGGTTATAT
7201 ATGGCTCCGA CATATCTTGT ACTGTCCGAT GGATAGTTTC AGCTAGGGAA TGTTTTTCTG
7261 GTCCAAATTC TCCTCTCCCA TAACGGATGC GACGATAAGC TTCAGCAGAA GCCAGCAGG
7321 AAAAGTGGGC CCAGCCAGCC TCGTCAGTAC ACATGGGGTG CTTCAGAGTT TTTGTCTAT
7381 TGTGCACATC AACATATGCC ATAAAATCGG AATGGGTCAA GTGCATGTCC TTTAATTTAC
7441 CCGTTTTTGA CAAGTAAGTG ACTGGCAACT GTTTGGCAGT AAATTGTTCA TTGATATGAG

7501 AAGTGGAGTA TTTTCTTGT TTAGAAGCAT GTCGTATATA GAGAGCGACA GCTAAGGCAG
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7621 TTACAATTTT GTTCCACATG GTCATAATTT CTCAGAAAAG TTCCTCAACA GGGGAATTAT
7681 AGTACGTGAT AGAATTGCAG TGATAGGCAC AGGCGGATAT TCCGACGGTC CTCTCCGAG
7741 AATATTTTGT CTAGATTGAA GCATTGCAGC AATCTCCTGT TTAGCATGGA CAACCTGTAT
7801 ATCATCACGA GGCAAAAGAT TGTCCTTTGA TCCTTTTGAT AAAGCTTCGA TGTTTATAAA
7861 GGAACCTAAA AGTTTCCACA TTATAGCAAT GTGATAAAAG CTGTCCAACG AAGCATATAC
7921 AGCAGCTGGG AAAGTTGTCC ATATTAATTG CCCACTTTGT AACGCAGAGG CTAATTTTC
7981 AACCCCGATC TTGTTGCTTT GGCAGATGTT CGCCATCCAA TCTAGTTTTG TTATCGTATC
8041 TAGAACTGGG GTATTCTTAG CCAGTTTGAC TGCCATCCCT TCGGTTCTT TCGGGAAGTA
8101 AACTGGCTCC TTTTCAGTAG AGTTGGTTTT TATGTTTTTC TCTGATGCAG ATTCTCCAAA
8161 ATATAACAGT TGGCGAATAA TGGAGTCAAC TTCAATAGTA TCACTCTTCA CTAATTCTAT
8221 TCCCTTTTCG ATTAGTTGGC ACACGTCTTT ATCTAGCCTC ATCCTGTTAG AGTTTCTGT
8281 TTCGGCTGCT GGTGCTGTCG CAGACGCAGT TGCTATTAGT CCATCAGATG CGTCCAGTAT
8341 GGAATTGGGA GGAGGAGCTG CAACAGATAA CATGGCAGTA ATATCATGGA TGATTTTGGA
8401 GTAGTCCAGT TCTAATACAT CAAAATCCTG TTCTTCCCTC TCCTCCATTT TGTGGTGTC
8461 CATGTTTGAG GAGGGATGGT TGTTGATACT ACCCGAGCTC ATGCCGTACA CCGAATGACG
8521 AGAGGAGGTA GGAGCAGGCC CTTTTTATAG CCCTAAAGGG CCATTATCGA CAGTACTATT
8581 ATAGAAGTTA TTTTTATCCC TGATATTATA CAAGCAGAGA AAAATTTTCA TCTACTTGCA
8641 GGAGACATCT TTTTAATAAA TTTAGGGAGT CTTCTCCAAG TTTTCTTCT ATTGGTTTT
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8821 TTGATAAATC TATCAACGTA CTTTTTATTC AGCCTGTTTC TGGTCGTGGA ATTCCGTGAA
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8941 TCCTCTCCAA GAAGAGAATC GACGTTAGTG TCTGATTGAG AGTCATATTC TTCTTCTTCT
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9061 GAAGAAGATG TAGAAGTAGA AGCCATTTCT TTGTTTGTG TTGTTACCTG CCCATGTTCC
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9181 TGCCTTGTGT TTGTTACAGT GCTAGACCAT AAAGCCCTCC TGGGAAGCAGC CGATGCTCCA
9241 GGGTCCATTT CTGATCGCGT ACATCTAACC TTAGCAATAA CCAGAAATATC GTGCTTTTTT
9301 TTTACTTTCA GCCAGCCGTG TTAGCTACCT ACGGAATGGT GTCTTTGTCT TTAGATGAGG
9361 AGTCGTACAG GCAAAATTTG GGTAAACCTT CAAACTCGCC TGTGCAGTTA TCAAAGCATA
9421 TTTGTATCAA AGAACCTTCC GCACCTATTA AATTTCCAAC CATAAAAGAG TCTATGTGTT
9481 CATTAAACAA AACACTATTT TCTTTAGTGA GTGTTAGTTT CTTTCTATTG CACAGTATTA
9541 TGTCCACATC GTGCCCATTG GTGTTATTTT TATCATTGAT GACAGAAATG TCGTAAGCAC
9601 TTTCTCCTTC TTCTTCCCC CACTCCCTTT CTGCTTGTTT CTCCCTCCTG TCTTCAAATT
9661 CTTGCTCGTC GTCTTCTTCT TCTTCTCCC CGCCAAACCT CTCCCTCGTT TCTTCTCTT
9721 CGTCATTTAT TATATGTCTC CTAAATTTCT TGTCCAATAA TTTTGTAATG AAAACACACT
9781 CTGGCTTCTT CCTGACCTTT AAGAAACTTG CATCCATCAT GCTGTTTATT TTCATATCAC
9841 AAAGGCCATC ATACCTATTA TCTCTGCCA TGATCGCTTT GACGCTCAAG AATATATCGT
9901 ACATAATCTT AGACTCTTTT TTAGGTGAGA AAAGTTGGTT TTGGAAGTGT CTAATAATTA
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10021 TGTGGGAATG TGCTAGTGCA GCATTATGTA TAGTAAAAAG CAAACCAGGA TTTTCTTTAG
10081 CCAAACCTCTG TATAACATTA GTTGCCGTCA CTACAGGTAT GAGATTTGTC ATATCTAATT
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10201 TTCTCACCGT CACTAGTTGA TGTGCATCTT TTATGGCTCT ATCATAATCA TGGGGGAAGT
10261 TTGATAGAGC TAACGTTGTA GCATTTTCTT CTGCAAAGG TAAACACCCT TCGTCTTCAT
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10441 AAGGTGCATC ACTTTCTATT TTATTGTCT TGGAAAGTAAC TTCGTTATTT TTCGTATTCA
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10561 CACAATCAGA TTAAAGTGG ACTAAATGCA GACACAAATT AGAAAAACG AATTGAGATG
10621 CGGATTTAAC AATGGACAAT ATTTGATTAT GAGGAAGTAC AGACGTGAAA GAAAGAGCAT
10681 GCCCAAGATC GTCTGATGAT GTGATTTTAT TTTGGGCACC TATAACTACT AGCGCTATGT
10741 GCATCGCGAG GACAATTACT TCAGTGAAGA TACCATTTTC TAACGTCAA CCTTCTACGA
10801 ATGCAACCCC TCCTCTATTT GTCCCTCATCA TCATCTTTGA AAAATGTTCC ATCAAGTGTA
10861 CCTTTGTCAT ACTGGCTGTG ACAATCTGTA CGATATTCCC CATAGTCTTT AGGACTAACC
10921 CTTGATCGAT AAATTGTTCC GCCTAATCTG CCGCAGCAAT ATCTATGGAA TTATTACTGT
10981 ATCTATCGGC ATATGTTCTT CCTTTGAAAT CTTTGATCCT CTTATCCAAA CTATCAAAAA
11041 ATCTTCTCTC TGCGGGCGAG TCTGTAGAGA ATATGAGGAA CTGAGGGACT GAAAGTTGAC
11101 CGTTTCTGTG AGTCCTACCG ATAGTCTGTA GGAAAGCAAT GCGGTTATAA GTACATCTA

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11161	AAACGCAATG	GTAACGTTTA	GCGTACATGG	AGTTATTAGA	AGAGTCATGT	AAAGAGAGAC
11221	CGGTATTGCC	TTTAGGTCCC	AGCATTATAA	CGTCGACTTC	TTTCGTGTTG	TTGAATGCAC
11281	TAATACATTT	GTTTGTGTTG	GCAGTTTTAG	TGTTGTTTTT	AACCAGAAAC	AATCCCCTAT
11341	TCGTTATACG	CGAACACAAT	TTCCTGTTTG	TTATTTTCAGC	GTTACTATCC	TCCCCTATTG
11401	ATTGTGTGAT	TGAATCTATA	GGGTTGCCTG	CTAGCGCCAT	GAGCGGTTCC	GTGTCAGGGA
11461	CTGAAGGCAC	AAGCATAACG	TGAGCTGGGG	AAGTTCTTCT	ATTGGTTTTA	TTCTTTAAGG
11521	AGATTGTGAA	AGCTGAAGCC	ATCATGACTG	CACGGCACAA	AAGTCTATAG	CCTGAGAATA
11581	TTGTATTAGC	AACAGGCGAT	GAATCGAATG	TCCCCACGTC	TACGATGCCG	TATTTTGCCT
11641	CACTTTTCATC	CTTGCGCATC	GTTTGTAAGA	TGCGTGTAGT	CAAATTCCTG	AGAAAAGAAT
11701	CCCCAGTTTG	CTCTAGTGAC	ATGACCATCT	TTTTTGATTC	GTTTGTTGTC	CTTAAACGCT
11761	TCACTGCATC	GGTGACAGAA	GTTGCCCTGA	TATTCATATG	TGCACCTTTA	CATGCTGCCA
11821	CAGAAGTACT	TGCTGTATTA	ATGAAGTATT	GTCTCCTCAA	CTTTTCAAAA	CACCTCGTCG
11881	CAAATACTTC	ACCCCATCCG	TCTTCTTCAT	TAGCACCGTC	GTCATAATCT	TCGTTAAAAT
11941	CAGTTTTTACC	TTTGGAAGGT	TTTTCTTTTT	TCTTGATAGC	ATCGTATAAA	TCTTGAGCAA
12001	CCATATCAAT	GCTGCTTATG	TCAACTTCCG	GAGACGTTAT	TATTCCTCCT	CCTCCATTAG
12061	AAAGCGCATC	CTTTTTCTGT	GAGTAGGTTT	TTATAGCATC	TTGTACTATA	CTTCTTAGTG
12121	TTGTTTTCCC	ATCATGTGCG	ACATCCCTAT	CGCGCACAA	CACCACCTTA	AAACGCCTGT
12181	CGATATTTTC	CATTACTTCA	TATAAATCAT	CATCATTTGC	AGCACGTTTC	CTCTTTCTGG
12241	ACGGGGAATT	AATCTCTGCT	ACTAATTTTT	CAACATCTTC	CTCTTCCAAT	ATTCCTCCTT
12301	CTTGGTGTTG	TCGTATAATC	TTTGTAAGG	CCCTTCTGAC	ATGTCCTCCT	ACTTTTTTCAG
12361	AATCGATGAG	TACTTGTCTA	GCGTTTTAAG	AGTACGAAGC	CAATTCGTCT	ATAGCGTATT
12421	TTTGAAGAGG	GGAGGCTTTA	CAATTAGTAG	TAGAGCAGTC	GACTCCAGCC	ATGCTAATAC
12481	TCCTACTAAC	CAATTGTCCT	CTATTTCTTA	AAAGTTTAAT	AACCTGTTCC	AGAAACACTG
12541	TCACGTACTC	GCTGTGCTCA	GCCATAGCAT	CTGGAGTAGC	ACTGGACACT	TCTTTGAAGG
12601	CTTGATGCT	CGTGTAGGCT	GGCGCACTTT	TCCTTAGTAT	GTGGTCAATC	ATGTGCAAAT
12661	CAGCATTGCT	CTGGAATGGC	GTAGCGCTGG	CCATAACCGT	GAACGTATCA	TACTTTAAGA
12721	TCTCTAAGAA	AATACGGAAC	GCATCAGCTT	GAGATAATAG	TTTCAAGTAG	TTGGACATTG
12781	TAACTCGGCC	CTTATTATTG	GATGATTTCA	TGCGCTTCAC	TTTAAAGTTT	CTGTCGTCAC
12841	TCATTGCACT	CTTGAACCTA	TTAATAAGGT	CTGACACTGA	AGGGTTTGCC	CTTTTGTGTA
12901	TGTTGCGCAA	AACTCTAGTA	TCTTCTTCTT	CCCAAGTCTT	TGCCAGTTCC	TTTCTAAAAG
12961	AGTCAGCAAT	ATTTTGAGTC	TTGTGGAAGT	CGTCACATAA	TAATGCTGTG	ACAAAGTTGT
13021	CAATGGGCAT	AACCTTGTTG	GAATCGAGGT	CTGTTCTCTC	TGTTATAAAT	TTCAGTACAA
13081	ATTCCAGATT	TGTGCGTAAA	TCAGAGTACG	TCATAAATAA	AATGGTGGGC	GTTTCTGTTA
13141	AGAAATCTCC	TATTGATCTT	GAAGAACGCT	TACTATGAAA	TTCCTTAACA	TCCCTGAGAG
13201	TGAAAAATCT	AATATCCACC	GAGTCTTTAG	CAGACGATAC	AGAATTTTCC	ACATCTACTG
13261	TCATGGACCC	ACTTTTCCCG	TCGCTCTTGA	AAGACGTTGG	TTTATTAGCA	CAAGGCACTT
13321	GTAGTTTTCT	CCATGAAAAA	TTAGGATCAC	GAAGACCTCT	AGAATTTGTA	ACCATTCTC
13381	GCATGCCCTG	TTGACAGCTG	TTGAAAAGAG	GCTTAGAGCA	CGTCAACCAT	ATAAAAAAGG
13441	GGTGCCTTTT	CCACACGCCA	CTGTTGATGG	CCGTAATTAC	CTTGTCGGA	CTTTGACCAA
13501	AAATTGATGG	CCCTACGTGT	TTTTGTACAT	CTAAGAGTGC	CTTTTCTTGT	AGTATGACAC
13561	TCATGACGAA	GGCTGCCAAT	TCTCTTGTTT	TTCCTACACC	AGTACCATCT	CCGATGATAA
13621	ATCCTCCACT	CGTTTTCTTG	TCCACTTTAA	AATTCCTTTC	GACCTTATCT	TTCACAAGGT
13681	CTATAATGGA	CATGTTCTTC	TTCCACCCTC	TCCCTTTGTA	GAATTGAATC	AGGGCTAGAC
13741	GCACTGCTAG	TGCCTGCACA	GAATTAATGT	CCATCGGCCG	AGGAAGAAAT	TTGGGGTAGG
13801	CATCGGTTAC	ATTTTTGCAG	AAGCCCACCG	ACCGGAATGT	TTCACTCTCA	TAAAGAGCGA
13861	ATGAAGGTTT	TGGGTGGGAG	AGGGTGCCAA	TCTCTTTAGC	ATCTTCTTCC	TCCAGAAATA
13921	AAAGTTTGTG	AGCCATGGTA	ATTCAACCAG	AAAATCAACC	AATATATGTT	GTAACAAGAA
13981	GTTGCCTTAA	GAAGACTCTT	GTGTACTTTT	TTTACGATAC	TTGAAACGAG	TACGCCCTGCA
14041	CGGATCAAAA	ATTTGGTATA	CTGGTTAGCT	GCTATTTTTT	GCAAAATAAT	AGTTTTTATT
14101	TTCCCATGCT	AAAGAGAACC	AGGAGTTACG	TACAGCCATA	CTAGTCTCTA	CAAGTAATCG
14161	TCTATAAGCC	TCAGAAGTAT	CCACACCGTC	CCTGAACCAC	GAAGTTTCTT	GCACGTCCGC
14221	CTTCTTATGC	CCCCACTCGA	CGAGTGACTT	CTTGAATAGA	GAGAGGGGTG	TTATTGTAGC
14281	TCCTTCGGGG	GTTGAGGAAA	TGTTTGACGC	ATCAAACGCT	AGACGAGGGT	CTGACTGTAC
14341	TACCGGGCCA	CTCTTGGGGT	TATGATCCAA	ACGAAACGAT	TGCAAACCCC	ACGCATCGTC
14401	GTCAATATCC	ACTCTGTACT	CGGATGAGGA	AGATGATGTT	CCGAACAATT	TTCACTTCC
14461	GGGAGTTACA	TTGGAGCAAT	CAAAATAGCT	GGGGATTGTT	TCGCTGTCAA	ATATCCTATT
14521	GTGGTCTACT	GAAAAAATAT	CGTCGGTAGC	TCCTTCTTCG	GGAAGAACAG	AGTAGGATGT
14581	GGGGAACGCG	TACTGCAAAG	GATTGGACAC	TTTCAATGTA	CTGGAAGTTT	TTGATGCAGG
14641	TTTTCTTTTT	AGGTAATCTA	AATCAAACAT	ATCTCGCGCT	AGCACAGTAG	CAGCATAAGG
14701	TCCGTATGAA	CGCATTAATA	ACCCCTCTTT	CAATACAAAA	GTATCCTCAG	ATTTTTTTTAT
14761	GATATGTCTT	AGAAATTCTT	TCCTCTTCAT	TAACTATCC	CAAGAAGTTG	ATTTGAGATA

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14821	TATTTCACTT	GTCCTCATCC	CTCTCGCGTG	TTTCTTTTATT	ACGTATTCTG	TCTGAGACAA
14881	TCTCCTCTCA	TCGTTAAAAT	TACGTTCAAA	AAAGTCCCTT	ATTTCTTCCA	GCCTTTGGTC
14941	ACCTGTAGAA	TTGTACTCTG	GAGCTGGAGT	ACCTCCAGGG	GGAGTTCTGA	TATAAGAGGA
15001	GGGTTTATTT	TGACTCAAAA	GTGTAGAGAA	TAAAAGTTCA	GATCCGCCGT	GAACACTACC
15061	CGAAACCATG	CGACTATTTT	GCAAACATTC	TGTGGCCAAC	ATACTATGTT	CATAGGGTTT
15121	TTGAGGTATG	TTTCCGGCCA	AAACATTAGC	TGCTGGCTCA	ATGTAAAAGG	GTGCAGTACA
15181	GAATGGCCTA	TGCTGCCCCG	AGGAAGGTTT	GTTCAGGACG	GGAGCTAAAC	AACTTCTATG
15241	TAACAATGAA	GACGGGCGGA	TGATTACATG	GGGAATATTT	TCTAGAGGAG	GTAAAACAGT
15301	GCTAGGTATT	GGTACAAAGA	GCACATTCTT	AGAAGTATTT	GTTGCATCCA	GGTTTAAAGG
15361	CGTGATGATG	GGCGCTTGGG	CCAGTGCAAT	TTTCTTGCCA	GTAGTTTCGT	CGATACTTGA
15421	TTTAGGTCTT	TGCTGGTGAA	TCTGGTCCCC	TCTTTTAGAT	TGGTCGGCCA	AGAAAATTCC
15481	CATGGCAGGA	ACAGTCCCCA	CTAACGGTGT	CCTGTCATCG	CCTATTATTG	CATGCCTGTT
15541	TGAGTCTTGG	GGATTATTAA	CGCCCGGTAC	ACACTTCATT	GTGCTCACAT	CAAACGTAAC
15601	AAACGAAGGG	TCTATGTTGG	GCATCATAAC	ACAGGGGTTT	TCCATACATT	CATACATACC
15661	TCTGAATTTT	ATATCCTTTG	TTACATCTTG	AGAAAGAAGG	TCGTTATTTA	GTACATCCTT
15721	CTTATTATTA	CAGAAACAGG	TGATGGGGTT	TTTGTATAAA	AATTCAGGAT	CGTTGCATTT
15781	AATTTTGAAT	TCCGCCAAGG	AAGAAGATTG	ACGCAATTTG	GAGATGTAAG	AAGAGTTGCG
15841	GAATTCTGTA	TGATTCCGTA	TTTGTGTTT	CTTTAATACA	TCATAATAGA	TTGGTGTCTGA
15901	AGATGAAGGA	GGTGGTGGTC	CTTTGTGGGT	TGAAGGATTG	AAAGCGCAAG	CAGTCATCGA
15961	TGTTCTCTCC	GAACCTCCGA	AATATGTTGG	GTATTTAGGT	CTGCATTGCC	AGCCCCATC
16021	ATCTGTCAGA	ACGACTATAG	ATGTGTGCAC	AGAACACTCT	TTAACTACAC	GTTCTCCAGT
16081	GGTTGGGGAT	GTTTCTATGT	GGTCACCGGG	CACGTTTCCT	GACCAACAAT	AAGGTTTAGG
16141	ATCTTCTCCA	GATTTATGTG	TGATAAATGT	TCCTCCAGCA	ACAAATGGTG	TCATCACACG
16201	AACTGCTCTC	GAGGTATAAC	ACACAGATGT	GCAAGTTTGT	CCCTCTTTCA	AAGGAACTGG
16261	GTTGGAACAG	TACCCGCCAG	TATTGTAGGC	CAAAATATCC	ACATCTTCAT	CATGTCCTTC
16321	TGATGTAGAT	GGAGGAGGAG	GAGGAGCGTC	ACCACTTACG	CCTGATGCAC	TATGGTGATG
16381	GATATCATGT	ACACCAAATA	AAGAATCGTA	CAATTCAGTA	TCGTCTTTTT	CTATATTATC
16441	CTTCAAATTG	ACCATCCTTT	GTCTAAACTT	TTTCCCCGAT	ACAGCATCTA	GATATTTGTT
16501	AGATTTTTTC	ATGGTGGCCT	CACTCAATCT	ATCTATATGG	TGTTCAGGCA	CGAGAAGAGA
16561	TGAGGATCTA	TTTGCAGCTA	AATCATGACT	TTCGAACCAG	GAATTCCTTT	CCTTCGTTTC
16621	TGACGGGAAC	TTCCATTTAT	TCCCTTTAAC	AGTCAAATTC	ATCATGTCCA	GGAGAGCGGG
16681	GTGAGGTGGG	TAATTGCTTG	CATCTTCCAC	CCCGTCATGC	CTACCTCTGG	CTTCTAGGTA
16741	TCTTTCTAGT	GTCTTTTTCAG	GGTTAGCTCC	TTGAACTGCT	TTCAATTTAC	TTTTCATCCC
16801	TAATTTCGTG	ATAGCTTGAA	AATTAACAGA	CATTGGTTTG	GCTACATTAT	AGGCCATTGC
16861	AGCGCAGACT	AGCGCAAAAA	TACAGCCTAA	CACGAACACG	GTCACGAATA	ACGTTATTTG
16921	CGCGGTGAAG	CGCATACTTC	GGTTGGTAGG	GTAAAGTAAC	GGATCTCTTC	GTCGTTTCATC
16981	CATCGTTTCT	GATATTACAA	TGGATATCTT	CCTAGATAAA	TCTCATACAG	GTGCCACCCT
17041	TTTAGGGTCT	TATAAGACGC	AGACTGTGAA	AAATAATTCT	ACGTTAAAAA	ACGTTAAAAA
17101	GGGCGCGCCT	ACCAACGCTG	ATTTTACACG	CACGGTATCA	GGAGTAGCCT	CTTCTCTCTA
17161	TCTTGTTAAC	CCTGGAGACT	CTTCCGATAG	AGAAAAGTTA	GTTTTGGCCT	CTTCTTATTC
17221	TGACTCTTTT	GTGTACAAC	ACAAGGATGC	AGTGGTGACC	GCTGAGGCTC	CCAAGTGGTG
17281	TCCCTTTAAC	GAGCCAGCTC	TTCATGAGCA	CATCATGAAC	AGACTTGAAA	AAGCTGGTCT
17341	AATTAACAGA	TCTCGTTTTG	TGTGTAACCC	TGTTAAATCG	GCTGGAGAAG	TATGCGGATT
17401	TCGCTATTCT	GGAGGAAGTA	CTCCCAGAA	CTTAATTTTC	CCGATTGGAG	CATCAGAGAT
17461	AAATTGGTTG	GTCATACTTA	GAAATGCTGC	TCGTTTTGGT	ACAGTGGCAG	CATCGGCCAA
17521	AGACGCCATC	GAACGCATTC	CTGATCTAAG	AGAAGGTGGT	ACAAGTAAAC	ATGTGGCAAA
17581	GAATGCAATG	AGGAGACTTC	GTGTATGGCG	AGCCTTTAAC	TGGATAGCGG	AAGCCTCCAG
17641	ATCAGCGGGC	ATGATTCGCT	ACGAACCCTT	TTCGGTTGGC	TGTGCTCTAT	ACGATCACGA
17701	GGTAAGAAGA	AGGCAACTAA	AAGGAAGTTA	TGAGCGAAAT	GTAATTTTCT	TTGGTGACCA
17761	TTTCTGTAAA	GAATCAACTC	TTCTGGCTGA	TATTTCAAGA	GGGGGAAGAA	GTTCTGATTT
17821	CTGGACGATC	GTTGAAGCTG	TCATCCGGTA	CAAGAATAGA	CATGCTCGAA	CAATCAGTAA
17881	TGAAACTAAT	GCCATCCCTG	AAGACTCTTC	TATAAACTTG	GAGTGGGAGG	ATGTTCTAGT
17941	AAAAAACCAA	CGCGACACAA	ATCAAGGAGA	TGATTCTACG	TTAGAAAAGA	CCTTAGAAGC
18001	TGCCATCAAA	GAACATGAAA	GCATAGGAGA	AAAAAGGAAA	AAACATATCC	TAGAGTTTAT
18061	TAAAACATGT	CTAACAGAGG	AGCAACGAGA	AATGATTTTT	AAGGGAGTTG	GAGGAAAAGG
18121	GAATTTGTCC	CCGGCCCATC	TAACAAATCT	GGCCGATGCG	ATACTGGCTA	ATAATGCCAA
18181	AGCAGGCATA	TGGGTATTAT	TGCAGAGTCT	TTTAAAGCAA	ATCAATTTCT	CTATACTCCA
18241	TTTAATAGGG	TACGAAGCTC	AACGAGTTTT	AATGTTCAAG	TTGTATATGC	CTGCATTACT
18301	TGCTCTTTTT	ATATCTCAGA	GGGGAATTGG	TGACGTGTTT	CTGAATGGTG	TGTTTAACCT
18361	AGAAGTGATG	AAAGAAAGAG	CTGCAAATGC	AAAAATAAGA	GACATGGTTT	CTCGAGACGC
18421	CTACAAGAAC	AATACTAACG	AGTCTAATAA	TTTGGGCAAT	TATTCCCAAT	TCGATATCGC

18481 TACAATTTAT GGTCAAATGT CTGATTGTAA TGCAATTCCT CTATCTATTA ATATTGGAGT
18541 ACCTCTCCAT AAATCGAGGA TGAACATGCA AGACATTGAA AAGACCATAC AACACATAGT
18601 GGATATGGGT TTGGCAAAGA TACGTGTAGC GGAAGAAAAT AGAGTAGCTA GACGTCTTTT
18661 ACATAGAAGA AAAATGCAAG AAAAGGCAGC CAGGGAGCGA GCAGCTGCGA GACAGAGAAG
18721 ACTAAGAGGT GAAGAAGAAG AAGAAGAAGA GGAGGAGGAG GAAGAGGGAG AAGAAATGGA
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18901 GGGTGAAGAT ATGAATGGGG AAAATAACTC AAGAAAACGT AAAAACACTG GTAATACTTC
18961 CTCCACTCAA CAACCTCCCC AAAAGCGTCA GCGAGGTAAA AATGCGCCCA TTTCAACCAA
19021 GGGAAAAAGG TTAAAGGAAA GAGATAATAT TGGAGGATTT TTATTAGCCA CAATTCAAAA
19081 CGATGACCGC CAAGTGAATG TGGAGAGCAT ACAAAAACCTT TTGACGGCCA GGCAAAGAAA
19141 ATATGTTAAA GGTGGAATAA GTGGAGATAA TGGACTACCA GAATTGTTAA TTGAAAAGGT
19201 TACAAATCTA CTAGATTGAG TGTTCCATTT CAGAAAGGGG TCTATTCTTA ACAGCATACA
19261 CGCAAATAGG CGATCAGAAA CTGGCGTATA CACCACAAAG GCAAACCTGTA TTTGTGATTA
19321 CTATGAAGA AACGTATCAA AAGACAGTGA TAATAATACA CCCCATTGAT CTGAATGTAT
19381 TGAGCGGGCA AGAGAAAGGG ATGCTTCCTG TGCCGAATCT AACAAACGCC CTTGTCCTGT
19441 AGACTCTAAC AACCTGGAAG ATGTGGAACA ACGTATGCGG GAATTGATCA TGGACCCTCC
19501 TTCATTATCA GGGGTAGAAG ATTCTCTCGC TATCGAAAGA GTACTTCAAA ATGAGATATT
19561 ATTCACAAGT CTTGTCACCA ATCCAATTTT CAATGCCGTG TTAGGTGCTG AAAAAGGAGA
19621 TCTTGGAAGA TTTATCGTAT TAAATAACAT TGTAATAATTT ATGAATATGA CTATTGCTTG
19681 TCTAGTGGAC GGAGATATGC CTATGCTTCT AGACTCAAGA GGCAAGACAA AAAACCTTCT
19741 AGAAAAGGGT ACAGTGAAAA ACACGAGAAA ATTTTTCAAA CCAAATATGA CTCGAGCAGA
19801 ATTGAACGTG GCCACTGCTC AATCTGCAAG ACACCAATAC ATGAACGCTG CTCATTGTCC
19861 AGAAGCTGGA ATCAAGCAAA TGTTACTCCC TGATTGTATA ATGAAACTGA AATCCATCGC
19921 CATGGAAAAAG GGTGAGGAGG GGAGATCGGC CCTTCACAGA CAGAAATGTG ACCATGCCTT
19981 TTGCAAGATG CTGAAGTGT TATTCTTCAA TATTGACCCT TCAAATGCTG CAGATACATT
20041 TATTGACCCT GCGTCACGTG CCACCTTATT TAGGCTTGAT GATCTTTGTA GGGATAGGAA
20101 AAAATACAAG AACATTGACT GGGTAAAGGA TTTACTAGAC CCTGTAATGA AGGGAACAAA
20161 TAAATGGGTG GGAACCTGGAG AATACACTAA CATTGGACGT GACTCAAACG TGGCCGCCCC
20221 TGTTGATTTT TACACAATTT TGAAATACAC AATGATTGAT GATGGTGTAA TAAGTGTTC
20281 TTCACGAAA CCAAATGACG TGTATTACAG TACTATTGAA AGAGCGGATG ACTTACTAC
20341 CGAGAGCAGG GACGCTTCAT GTGAAAGCTA CCGCCCGACC TTGTTTGACG CCGAGCGGT
20401 GTTGGAAGTC AACGGAGACG AACGTGTCCC TTACCCTTCC AGTGAAACCG TAGAAGACTT
20461 GGGAGGAGAA GAAGAAGAAG AGGAAATAAC AGGCGTTATT GACGACAGTA CTGAAATAGA
20521 AGACGTTCAA GTACAGGACA GTAATCTATT CGATGTGGAA TTATTGATA TCCCTGAAAT
20581 AGAACAACAT CAACAGGGTG GAGAAGAAGA GGAACCTCCT TCAGCAATAT CTGAAGTGT
20641 TGCTTCATTA CCAGCTGATA ACGATTCCCT CTCACCCGCG CATATTCCCT CATTTGGGAA
20701 TTCTGAGGAG GGGGAAAAAA GTCCAGAACC GTACAATATT TTTGATTCTG CCTCGACCA
20761 ATTATTGGAT TTAATAGATA GCGATGGAAG AAACAATAAC CCTAAAAGAG TCGACTGGAA
20821 CAGTGTACAC ATTCAAGAAT GAAATATTA CCAGAATAGC GTCTAATTAC GTCCGAGCCT
20881 TTAGTGACAC GTGGTCTCAT TTGGTCAACA TTTCTGGAGC TCCTCTGAAG GCTGAGAAGA
20941 ATCCAACGCG TATCCCAGCT AATCCACTGA ATAGATACTG GACCAAACT AACGTGTTAT
21001 GCAACCCACT CTTTAAATTG GAGGACCACA TAACGAGGGA TGAAGATACT GGTACAATAA
21061 CACTAAAATT CAAAATGTAT ATAGATGATA AAAATGGACT ATATCAGTCT GCCGTTTTAA
21121 TGCTGGCTCT CGATTGCTTC GTTTCGCTTG CATCTTTTTT CCATGGAGCT GATTTGGTTT
21181 CCAATAAAAG TGAAAACAAA TTCTGCGTAA AAATTCCCCA CGACACTCGC GCTGAATCTT
21241 TACTGAATAA TGTTGGATTC CCCGCTGGAT TAAGTGGGCC TTTTAAGAGA TGGAGCATT
21301 ACTACAAGGC TGCAAACCTG AGCGGTAAAA GCGGTATAGA TGGCCTTTCA GGTTCATGT
21361 TGACAGTACT AAAAATAAAC ACCAATAAAA GAGCAACTGA TATTTTACAT TTGGTGAATA
21421 ATGTTTCTGC CTCTGCACAA CAACTTGACG ATTCTGAAAT GTCTCGTACT TTTAACCACC
21481 AAAAGAAAGT TGGAGTTTGT TATGATATAA ATGTGTCCAG TTCAAGGCAA GTGAACCAGC
21541 GTAATTTACT CCACCATCAG AATATAATAG GACAACATCT GATCGAATTT AGAACCAAGC
21601 AACTTGAACG CGCACAAAAT AAAAAGTCA AGGAAGAGGA AAATGGTGAG CATGAAGAAA
21661 TGACAAGTGA GGAGGAAGAA GAGGAAGATG AATATGAAGA AGGAGGTTGC CTATCAGATA
21721 TTGACGAGGA AGATTTCTAT GAGGATGGTT ACGATGAAGA AGAGGGCGAT GACAATAGAA
21781 CTAGAAAGAA GAAGAAAATG GAAGAAGATG AAGAGGATGA AGAAGAAGAA TATGACGATG
21841 AAGAAGATGA AGAAGAGGCA GAAACTTGTG GTGCTAATGG TGTTATTGAT TGTGAAGACG
21901 ATGCAATCAT TTTCCCAAT GGACAAAATT CAAAAAGGAA GAAAAATGGT AAAAAAACA
21961 ACATTAAAAA GCGGTCACGG AGGAAGGGAG AGTGCTCTGC TAACACTTGA TCCTTTGTGG
22021 AAAAATACGT TGGAAATTGT AAGAGCCTAG GTATAAAGCC AGTAGGGTTA CCGCCCCATG
22081 CCACTGAATT TACTTCCCTA TTTATGAAGG GGAGTGAAGC TGACAGCTGT TATAATACTT

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22141	GTCAGTCCAC	CAGAGGGGCT	AGCCGTATAA	GGTCACTACT	CAATAAATAC	TCTGTTAAAG
22201	ATTTGATGCA	GGTAAACAGC	CCTTCGAGTT	GGAAATGGGC	TAACCCCTCCC	GACCGACGGT
22261	TCGTGCTGTT	TGATAAGAAA	ACTAAGGAAG	AAGTTGAGGT	TAAGTTTGAA	ATTGAATGTG
22321	AAAAATCCGA	GTATTTTGAT	GTCGTATCTG	AACTCCCTAG	TAATATTTAA	GTATGGTTAA
22381	AAGAGACGGC	AAAAATAATA	AAACATTTGG	CTCTGATTGA	AGACTTTCTT	CCAGCTATGG
22441	GTGCTGCTAC	CCCCAAAATT	CCCCTCAATT	TGATTAAAAC	TATGACGAGC	ATTTTCTCTG
22501	TTAGAGATAT	TGTTGGATTT	AAAATACCAG	AAGAAGTGCT	CAGTTTTTAT	CCTATAGAAT
22561	GGAAGACATC	TATTTCTGCA	ATGGGGCTCC	TCTCTGTACA	ATTTGATCGT	ATAATAGAAG
22621	TGATAGATTT	AATGATAACT	AATGGCGCCT	TTGCGACGTC	ATGCTTGAAC	AACGCATTCT
22681	TCTTGGAAG	AGGAGTGGTG	CCCAGAGATG	GGAGTAACAC	GTGGCTCCAC	ACGGACCTTG
22741	TGCAACTCTC	CACCTCCATA	TTTAGAAGTA	TTCCGCAACAG	AGGAGTGAAT	ATTGGCGGTA
22801	ACAACAACAC	TGGTAGCAAT	CTTCTAGTT	CTTCTTGTGG	AGGGAATAAG	GGCGATTATG
22861	GAGTAGCTTG	TGGATTGAGT	ATAAGCAAGC	GTGGTATAAC	CCTGAAACCA	CCACCTGCAG
22921	CGATGACTAA	TTCTTCTTCC	CCGTCATCCT	CGGCCATGAT	CTCATTGCCT	CAGCCCACGC
22981	GCCAGAGCAT	AGATCTTTTCG	ATAACGACAA	TCATCCAAGA	TTTCTCAGAA	GTTTCTGGGA
23041	AATTGAGGCT	TAATGGATTA	CAGAAAAACA	TGTCTGACAA	GAGCAAAGAC	GTGTTTAATG
23101	ATGCAATATA	CGACTCTGGC	GCATTCAAGG	CGCTCCTAAC	ATGCACAGTC	AACGATAAAA
23161	GTAGACGTAA	AAGGAAAAGA	AGGACTTTAT	TGGCATCTGG	AGAGGGTGTG	GTACGAAGAA
23221	ACCTGATGGT	GAGTCAGGGC	AATGACGTCA	ATGATGCCCA	CCAGTTCCAG	GAAGAATGCG
23281	GAATAAAAAT	TGGGGGCGGG	GCTTCTAGGG	TGTATAAAAG	AGCCCAGCGC	CGAGGTTCGG
23341	CAGTCAGTTC	CAGAAGAAGA	GTAAGGAACA	AACCCAGTT	TACTATAGCA	GTCTCTGACG
23401	AAGACGACGA	CTGCGAAGAA	GAAGGCGACT	TTTCTTCCGA	GTTAAATCCA	ACGCACTCTC
23461	AACTACTTCT	ATTCCAACAA	CGGCAACAAG	ATAGCTGCAC	AGAAGACGAC	GACGTTTTAG
23521	TGTCTGTAGA	AGAATATAAC	AACAGAGTAA	GCGGTTCTTC	CACCACAGCC	GGAGACAGAG
23581	TTCTTGCAAA	GGATCTTCTC	TCTACTGTAT	CTCCGAACGA	AAAGAGGAAC	TCTGCCGCCC
23641	TCGCCGCACT	CACCATATCC	CGGCACTCTC	TTTTCAACGC	TCTATCTGCA	AAAACAAAGT
23701	TGGGAGAAAA	TGGACGTTTC	TTCTTATAAG	AGCACTATTG	ACTACCACAA	CATTGAAGAT
23761	ATGGACGATC	TCCAGCGCGC	CACCTACAAG	GATCGTATGG	AGACGGAATT	GGTCCTCGAG
23821	ATGGCTAAGA	AGGAGGGAAG	GTACGTCCGA	TCGTTGGCCA	CCATGGACGA	ATTGGAGGTA
23881	CCTGAAGAAC	CAGCCACTTG	CTACACTTGC	GGCTACACCT	TTATTAGACG	CAGGCCACCC
23941	CCACCAAAAC	GCAAGTCAAT	ATTAGAGAG	CCTTGCGCTT	ACCCAGAACT	TCTCCCGCAT
24001	GCACCATCCC	CCGTCCGTTT	AGAAGAGCTT	GTCGACGTGC	CAGAAGGAGC	GAGTTTTTTC
24061	ACCTACCCTC	CCTACGACGA	CGGATCTTCT	ACATCGTCTT	CACAAGCCGA	ATGTGAAGAT
24121	GATTATCCTC	CACCATACGA	CCCATCAGAA	AATCCACAGA	GGTCCCAAGT	GTGTGATTAT
24181	TGTACCACAC	GTCAAGTCCT	CAGTTCTATG	ACGGATCACG	CCAGGGCCAA	CCTCATAAAA
24241	AATCTGAAGA	GGGAGAAGAA	GGCCCTGGGT	CTTGGCCGTC	GCAACAACCT	TAGCTACTAG
24301	GGTTGTACAA	GAAGAAAATA	GGATTGATTG	TATCGATGAC	GAACCTTGCA	TGTTTTTGAC
24361	CATTCTTTTG	CTTGCTGAGT	GTACATAGCT	TTATATTTGC	CAATAAAACA	GACCCCGAAT
24421	GTATTTTTGT	GTATTCTTTA	TTACTGCCTA	TTTTTATGGT	TTAACGGAAA	AAATTTTTGA
24481	AAAGTTTTTG	AGATGGAGAT	GAAGGGAAAA	AGAGGGCGCT	AGTTCATATA	CTGCCAATA
24541	GGTGGTCGGG	TCCAGAAACG	TCTGCTGTGT	CCAGAAATGT	GTTTAGAGAT	TTCTGGACAA
24601	GTCATTTCTG	GAAAGGGTTG	TAATTTATTA	TAGTTGGTAT	ATTATTTCTG	GTATACATTT
24661	CTAGCTCCTC	TCTGTAATCT	GACGTTGGGT	CGACCCAGCG	GTCCACCCTT	CGAACTTGAC
24721	ATAAGGCCTA	GTCAGCGGTC	CACCCCCTAA	ACTGGAGTGA	GCTGAAAAAA	TTTTTGAAAA
24781	GTTTTTGAGA	TGGAGATGAA	GGGTAAAAAG	AGGGTTGAAA	GGATAGCTGA	GGCCACCTGG
24841	GTCAGCCGTG	TTCCAGAAAC	GTCTGTCTGT	TCCAGAAATG	TGTTTAGAGA	TTTCTGGACA
24901	AGTCATTTCT	GGAAAGGGTT	GCAATTTATT	AAAGTTGGTA	TATTATTTCT	GGTATATATT
24961	TCTAGCCCCT	CTCTGTAATC	TGACGTTGGG	TCGACCCAGC	GGTCCACCCT	TCGAACCTGA
25021	CATAAGGCCT	AGTCAGCGGT	CCACCCCCTA	AACCTGGAGT	AGCTGAAAAA	TTTTTGAAAA
25081	GTTTTTGAGA	TGGAGATGAA	GGGTAAAAGG	CTAGTAATAG	AAGGTTGTGT	AACTCGGCAT
25141	AACCCAGAAA	CATATATCAA	AAGGGATGGA	AACAACCTATT	CTTTTTATAC	AGTAGTTTTA
25201	TTGTACCAAA	AACTCAGAAA	TCTCATCACA	TGACAAATCT	GAATGTCCCA	TTCCGTGGCC
25261	CTCAATAACG	TACGACACTG	GACCTGGGAA	CTCCCACCTA	CATGTTTTAC	ATACAGAAAA
25321	TTTTGGCTTA	GATGCATTAT	CAACAAACAC	TTTTACCACA	TTGGCATTCA	TTCTCTTCAG
25381	TTTGTCACAC	ATCCACAAAG	AGGCCATATT	CTCCATAGAA	TCAGATCCAT	CAACAAATAT
25441	ATAGAATGTT	ACACCCTTGT	CGATCCAGTC	CATGGCGACA	ATAGTAAAGT	CTGTCCAAA
25501	AACACTGTTT	CCGAAGATTT	CTTATGCCCC	ATCCATGTAT	TGGGAAAAAG	TACAGTATGG
25561	TCCACAGTCC	TTGATCTCCT	CCAACGAGTC	GTTCAAAAAA	TCCCTAATAA	AGAAAGACAG
25621	GCAATTGCGAC	TTGATCTGGA	AACCAATGTT	GAGTTTCTTC	GTATTTTCTT	CATTGTTGGA
25681	GGGGAAGAAA	TACGCCAATT	GTGTATCTGC	TTCAAATGCT	CCACACTTCC	CTTTATGGAT
25741	CAGGCGGTTC	TCCATAATCT	CCTTGCCAGA	ATTGGGGAGT	AGGCCTTCGA	AGAACAGGAT

(10)

25801	ATTGGGGCGG	G TAGGAACTT	TGCCAGTCAA	GTCCATGTTG	GCAAAGAGAT	CAGCAGGGTC
25861	TTCAAAGACT	GAGGCCATTT	TTTTGGTTGT	TGCTGCTGAG	AGAGGAGCAA	G TAGTAGTGT
25921	GGTTACTAGC	AAGGAGCTCA	CAGTCTTATA	TATAGACTAA	CACCCCCCCC	CCCAAAAATT
25981	CTCCCACATC	TTTCATACCG	GGGTCCGGCTA	GAACCCAGAA	ACGGTTTGAC	TCACATCTGG
26041	TACATTATTT	CTGTTATACA	TTTCTAGCCC	CTTCGTGTAA	TCTGACATTG	GGTCGACCCA
26101	GCGGTCCACC	CTTCGAACTT	GACATTTCGAT	CGACTCAGCG	GTCCATCCCC	TAAACTGGAG
26161	TGACCCAGAA	AAATTTTTGA	AAAGTTTTTG	AGATGAAGAT	GAAGGGGGAA	AAGGGTTAGT
26221	GAATACAGGC	AGTTCTGCCT	TGCTCCAGAA	ATGATTCTAA	AGATTTCTGT	GCATTATTTT
26281	TGGTATACAT	TTCTAGCCCC	TTCGTGTAAT	CTGACATTGG	GCCGACCCAG	CGGTCCACCC
26341	TCGGAACCTG	ACATTTCGATC	GACTCAGCGG	TCCACCCCCT	AAACTGGAGT	GACCCAGAAA
26401	AATTTTTTGA	AAGTTTTTGA	GATGAAGATG	AAGGGGGAAA	AAGAGGGTGC	TAGGGTGC GC
26461	TCCAGACATC	TCTAGAGTGG	CTAGAGCCCC	GAAACATCCC	AACTAGTTTC	TGGGACATTT
26521	TTTCTCCAC	TGACGCAGAC	TATATAAGCT	AACCACTAAG	CATATTTTGC	ACACATTTCA
26581	TCCACCATCA	CTGCCGAATA	CACCTTTGTG	TTGCTCCGCA	TAGCCTAACA	ATGGCCCCAA
26641	ACTCCTTCCA	GAAATTTGCT	CCAGTTATCA	AGACTGAGAA	GAAGGAAGAA	GAAAGGGATG
26701	AACATGACGA	CCCTTTACGG	CAGATTGATT	TTAGAGATAG	AAAGACATTA	ATCTGCCTCA
26761	CTGCAAAC TG	TGTTTTCGAGG	AAGAGAAAAG	CTGGATCTGC	ACATGATCGA	GTATACAAAG
26821	TACTACGCTA	CGGGAACCCA	TACAAGTACC	GTCGCCCCAA	TAGAACACAT	CGAGGATTGG
26881	CCCTCTCAAT	GGATCAAGGT	GAAGTAGGAA	CATGCCTCCC	TCTGCGACCC	ATGGAAGAGA
26941	CTGAAGAAAA	CCCCATCGAC	AAGTGCGGAG	TGGCGTTCCCT	GTACTCCAAC	TACAATGAAG
27001	GCGATGGCAT	GACCCACCTT	TACAACGACG	AAGAGTATAT	AAAGAAGTGC	AAAACAATTG
27061	AAGGAGGAAC	AAGAACGTGG	GTAAGAAGAA	ACCGCCAAGA	ATACTTCAGA	CAAGCTCTAG
27121	AGACATTGAT	GATGTCCCAT	TCTATAAAAC	AATATTCCAA	TTTTATTTTT	TTCAAGGAGG
27181	ATATGGAGGA	AGGATTTGTG	CACAAACTCC	ACACATTTAT	TAATATGGTA	CACCCTAAAA
27241	AGGTGCTGTG	TTTGTGATAT	AATAAAGATT	GATGTTTTTA	TAAATGAAAC	GTATTATTTA
27301	TACCAAAAAA	TTTATTATGA	TGTATTTTCA	TGGGATGGCT	TTTCACTCAC	CAATCTGGCC
27361	TATGTGTGTG	TTTATGCTAG	CCCCTCTTTC	ACCCTTCATC	TCCATCTCAA	AAATTTTTAG
27421	AAAATTTTTT	TGGGTCGCCTC	GAGTTTAGAG	GGTGGACCGC	TGGGTCGGCC	TAATGTCAAG
27481	TTCCGAGGGT	GGACCGCTGG	GTCGACCCAA	TGTCAGATTA	CAGAGAGGTT	CTAGAAATAT
27541	GTACCAGAAA	TAGTGTACCA	GTTATAAGAA	AATGTGACCC	TTTCCAGAAA	TGGCTTGTCC
27601	AGAAATCTTT	GAACCCATTT	CTGGAACAGA	CGTTTCTGGA	GCATGGTCGA	CCCAGATATC
27661	TGTTGGCGCG	TGTCAATAGT	AGCCTATGTA	TTCAATGGTC	TTTTACCCTC	TTCTCCATCT
27721	CAAAAATTTT	TAGAAAATTT	TTCTGGGTCG	CTCGAGTTTA	GAGGGTGGAC	CGCTGGCTCG
27781	GCCTAATGTC	AAGTTCCGAG	GGTGGACCGC	TGGGTCGACC	CAATGTCAGA	TTACAGAGAG
27841	GGTCTAGAAA	TATGTACCAG	AAATAGTGTA	CCAGTTATAA	GAAAATGTGA	CCCTTTCCAG
27901	AAATGGCTTG	TCCAGAAATC	TTTGAACCCA	TTTCTGGAAC	AGACGTTTCT	GGAGCATGGT
27961	CGGCCCAGGC	AGCCTCACAG	TTACCTGTTC	ACACCCTTCC	TACTAGCACC	CTCTTTCACC
28021	CTTCATCTCC	ATCTCAAAAA	TTTTTAAAAA	ATTTTCTGG	CTCACTCGAG	TTTAGAGGGT
28081	GGACCGCTGG	CTCGGCCTAA	TGTCAAGTTC	CCAGAAATAG	TGTCCGATTA	TTAAAAATTT
28141	CAGATTACAG	AGAGGGTCTA	GAAATGTATA	AACGTATAGC	CAAATATGTA	CCACAGTCAA
28201	AACTTTTTCA	CATGTGGCAT	ACACCGTATG	TATAAATTTT	AAATACTTTA	TTTGCATACA
28261	AACATTTAGG	TGAGAAAGAT	AATACACATG	CTGTCCACAC	ATCATTTTAT	AGGAACTGGT
28321	TAATAAAAAA	TCATACAGTT	TCGGACTCAT	AAGATACTTG	TTTATCAGGC	ACTGCCATTC
28381	ATCTATTATA	CCCTATTCTT	CTACGTTTAC	TCTCTTTAAC	TTGATCAGCG	TCAGGTCTTA
28441	TTTTACAAGA	CAC TATTGGT	TCAACCAACA	GGGTAATTTT	TCCACGTTGC	GTACTCAACA
28501	GGGAAGTACG	TTCTCTGCAT	ACAGGACACC	AATGTCCACA	GCGTGTCCGC	CTGATGATAT
28561	CCAATCTGTC	CCAACATTTT	TCATCAATAC	GACAATTATC	GCTGTCGAAA	CGCACATTAG
28621	TGGTACTACT	GAAATCTTCT	AAACACACTG	TAATTTCTTC	CTTATCCCCA	GAAATTATGT
28681	CATTCTTCTC	ATGTTCTTCT	AGAGCCCTTT	TATACCCCAA	GCGACAATTC	AGTATTGGCC
28741	GTTTACGCCC	AGGATAATTT	GAGGATGCAA	CGGTGGCAGC	AACAAGGGGT	TCTTCTTCTT
28801	AAGAACGAGG	TGCTTTATTG	ACATCGAGAC	TGGTGGGTAT	ACTAGGCTCG	TATCCTCTCT
28861	GGAGAGAGAA	ATCTAAAGCA	GCTTTCAATA	ACATCAATAA	TGCTGCTTCA	GTTACACTTA
28921	GGGCAAAC TG	TGTTAATGCG	GTATCATTGA	TCTTTGCCCC	ATGGGCTCCA	ACTAGTGCAT
28981	AAGTACTAGA	TTTACCATAC	AACATATTAA	CAATCATTAG	GGGCGTTGCA	CCATCGCTCG
29041	CAGAGACATC	GTGTTTGTGA	TTGGCGATGG	ATCGTATATT	ATATTCTTGT	ATTTTTTAGC
29101	CCTTCTAGCA	TTCACTATAC	TTCTATCGAA	AACAGCTGCA	GCATGGAATA	CGTTTTTCAAT
29161	AAGAGCATCA	AGAAAATTGC	ACGAGGTTGC	GTTTGTGTGT	AGAATTTCAA	TACCTACTCT
29221	ATTTTCATTA	ATAAAGGAAA	AGGCCAAGCT	AACCATTAGA	GGTGACATGC	CTTTCGCAGA
29281	TGTGGTAAAG	GGGGAAGATA	TTGCAGCGCA	GACTAGTTTG	CTAGTATGGG	AATATTTGTT
29341	AGGCTTCAGA	ATGTTAAGTT	TTTCTTGTGT	CTTTTCATCA	AAATAAGTGT	GTTTGAGCCA
29401	AATGATACAA	TAACACAATA	GAGTATTCCC			

29461 CGGATTCTTG GTAAGAAAAG CTTCAAGATC TTCCATGAAA CACGAGACTT TTACACACAA
29521 TCTAACATAG CCTTTAACTT CATGAGGGTC TGTTATCACA ACGTTTTTAT GTGATACGAT
29581 CCTTTTCACA ATAAGATTAT CGCACAGTTT GTCGGTCTTT TTTCTTACCA TAATCTCCCT
29641 CAAACAGATC TTGAAGTAAT TGTAATCAAT CTCTTCAAAG GGCCTACTGT TAATCATCCA
29701 CAACAGTATT GCACCACACA AACCCTACC CACTGCTTCG TTTATTGCAA CATTTTTTAG
29761 AATATTGTCC ATCATTTTCGG CAGAGAATTT TGGCATCGTG TCAAATATAC TGTAAGGGT
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30421 AAACCTGAAT CCAGTTCTGC TGTCATCACC AGTGCCAAAC TTGATGCCGT GCGTCTCGCG
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30901 GCGTACGCCC GCTTTTATAC AAAGATCCCG TGTAAGAAAC TCCCTCCGGT TCAGTTCAGG
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31201 TGAGGTTCTC TCTTCGAGAC GACACTATTC CAGTTCTCAC TACCAAGAAA ATTTTCTGGA
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31321 CCAAGAAGAA GATACACATC TGGAACGCTA ATGGGTGCGG GGAATTTTTG GACAGTAGAG
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32401 TTATTCCTTC AAGAGTTTAT CAGCAACTGG ATTGAAGAGA CTGATCGACA TGGACAGTAC
32461 TGTACTTTTC CCCAATACAT GGACGGTGGG GATGGTTCAC GTGGGGGATA TTTTACTTCG
32521 CTAGCCATGA AATGGATGGC TAGGGATGTG ACTTTCTTTG TGTTTGTTGA TAGGAATAAT
32581 ACTGTAGAAA ATGCGGCATC CATATGGATG TACCAAAAAC TACTAGCAAT TGGTGCAAAG
32641 GTAGTAAAGG TGATTGTTGA CAATGCATCA AACCCAATGT TTTCTGTATG TAATGCGTGT
32701 AGGTGCAAGT ACCCAGGCCC AGTGTCATAC GTTATTGAAG GCCATGGAGT GGGTCATTCT
32761 GATTTGACAT GTGATGAGAT TTCTGGATTG TTTGTATAAT AAAACCCCAT AAGAAACAAT
32821 AATCTTTTTT ATTTCAACACC CATGATTTTA GTTTTATAG TATATAAAAT CAAGAATAAA
32881 GTATGTAGAT GTCTACTTTT CGATAGCTCC TTCACCTATA TAGAGGAGGT GGATAAAAAC
32941 AGAAGATATG GATTCTAATA CTTCTATTTT ACCGCCAAGC AAACGGCCAG GGTAAATCT
33001 GTTACAGGTT TTAGGGATTA TAATAACGGT AGCATTAATA GCTTCCGTTT CATCCTTTAT
33061 ATTTTATAGG GTAGGTAAAC GCAATATTA CCCTTCTTCA TCCTCTTCT CAGAATTATC

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33121	TGATGTAGAT	AATGGGGTAG	AAGGAGGAGG	AGGAACAACA	ACGACACCAA	CTCAACCTTC
33181	ACCTGACGGT	GGAGATGGAT	ACGTAGATCT	TTCTCCTCAA	AAGAAGGCTG	AACTAAGAAC
33241	TAGAGTTGCA	AACGTCATCT	TTCAAGAAGT	GTCAAAGGAT	CAAGGAGTGG	CCTTTAGACG
33301	GGCAATGAAT	GATTCAACTG	ATAAGATAAT	GGAAGAAACT	GAGGCGAGAA	TCAATAACTT
33361	TTCAGAGCCA	TTCAGAGAAG	CAACCGTAGA	ACGTGAAGTG	TTTAAGGATG	ACAACAGACAA
33421	AAACTTTATC	CTTCAACTC	TAGATTTAAC	AGAGGAACAA	TTTAAGGACA	TTGTTATGGC
33481	TGAAGTGAAG	AATCAATTAG	AAAATTTTGA	CTATGAAGAC	ATGACCCGTC	TCATCTTTGA
33541	TAACATCCCA	GAGACTGATT	ATTTATGGAC	AACTCATTTT	GATCCGAAAA	AATATGACAC
33601	GTAATCTGAA	AAGGTATTAG	GGTTCTCAGA	TATAAATAGT	ATAGAAAGAA	TATCCTCTAC
33661	ATTTTATAAA	GGTAAAAAAT	ATGAGGTAAAC	TACTGGAAAT	GATAGCTGTC	TCGTTGATTT
33721	TGAATCTGAA	ACAATAAAAG	AGAAGGCAGG	AAATAGTCTC	ATCCGTAATG	TCGAGTTTAT
33781	TGTTGTGGAC	GAACAGACCT	ACAAATCTTT	CTTCCCTGCA	TTCAATCAAG	TTTTCTTCTC
33841	CTTTAAAGTA	AATAAGGAGA	AAAGGGAAGT	TACTGTATCC	ATCAATAATG	GATGTGTAGG
33901	TATAGTGGCC	AATATTACTC	CTCTAACTAC	GCCAGTTGGA	GCAGCTCCCG	GACACTACAT
33961	CTATGGCACT	AGCACAGCAA	AGGAAAAGAC	CTATCTATTT	GTAATAGACA	AGTACGATAC
34021	CACTGAATTT	GTTTGTGGTC	TGAGTAACAA	GTCAACTCCT	CTCATGGCTC	TAAATATTCT
34081	CTTTATGAGT	GATACTGTTT	TCCCTTCATT	TGACGAAGCA	GAAAGACCTC	TGACGGATGC
34141	CAAGGCAGTA	GAAATTTTAG	GTAAAAGACT	AGGTGTAGGA	AGATACACAA	ACGCCAACAT
34201	CAGAAATACT	CAGTGAGATG	GAAGGGGTTA	TTTTGGATAA	GATAGAAACA	ATTGCAAAAA
34261	GGGCCTCTCC	TAGTTATGGG	TCTATTGATG	TGGGTACGGC	TATTTTGCGC	CGTCAATTCA
34321	TGGAAAAAAT	TAGGGGTAAA	ATAAATGAAG	AAACCACAAT	GGAGAAGATT	ATGGGCACAA
34381	AGGAAGAAAG	AGAGGACACT	ATAAGAAGTA	TAGTGGCTAA	TGTTATCAAA	GAGAATACTG
34441	TTAAAGAAAA	TGTAACCGAA	AAAATTAGAG	CAATGACAGA	TAAGGAATTA	AATGACAATA
34501	GGGAATTTAT	GCATGATTTT	GGAAAAATTT	CAACTGGAGA	TGGAGGAACC	TTCCATCTCT
34561	TTGAAGATAC	ACCGGGTTTT	GAAAGTGCTT	TAAAGGCAGA	ATATAAAAAAC	GTTCCAGGAG
34621	CAACTACTCC	AAAATACGTA	TCTATGAACA	GTTTACGTAT	CGATGCGATT	AATGGAAAAA
34681	TCGAAGAGGT	TTATAATCCT	TCACCTATCA	TGGGTATTAG	AGAATACGGC	ACCATTTCGA
34741	GGGGCAGGTA	CGAAGAAAAT	GCAGGTTCTG	AAGAATTGGT	TTTTATGACC	AAGATTGAAA
34801	AAAGACCCAA	TAATGTAGCT	GAAAATCTCA	TTATTAGAGT	TGCCAACCAG	CAGTATAATG
34861	TTATGAGGAT	GGTGTTTTTT	ATAGACTACG	AAACAAAGAA	GGGGGTGTCC	AAGGAGGAAA
34921	TGTTTATACC	ATATAATGTT	CAGAAAACAA	AGGCTCTTAA	AGGGCGTAGT	ACTTACTTTT
34981	CATTTCGTAAG	GAAAATTCCT	GATGAACCA	AAGGGAGTAT	CATAATACAC	GCATAGGGT
35041	TTTATTGAGG	AAATAATAAT	AATAATAATA	ATAATGGCAT	TACAGGAAAA	GGATATAACT
35101	ATAGGGAATG	TTTCTGCTGC	CCTACGAGAG	TTGATGTACT	CACCCACACA	TATGCAGCAT
35161	CACGATAAGC	TAAACACATT	CCTGGACAGA	AATGTTGAAT	CATCTTCAGA	AGAGAAAAATA
35221	AGACAAATTG	TGGATAAAAT	ACGATCCCAA	ACAACATCTG	ACATATCTGA	AACAGTCAAT
35281	AATGTCACAA	CTAATGGGAC	TGCATTTTCC	CTTTTCGAAG	ATACCTTAGA	AGGTATGGTG
35341	AAAAAAAATA	TAGGTGATAA	CCTTCAGAGT	GGGGACTTTA	TTGATGGCCG	TAAAAAGCTC
35401	AATGACATGA	AGAGTCTAGC	TACTGGAGCC	ATCTTATCTA	GACAGCGAGA	TTTTGTTGCA
35461	GAAAGTATAA	CAGGAACAAA	GGACTGGCTC	AAGGCTATAA	TGGGTTGTGG	TATTATAAGG
35521	TATACTGTAT	TTGTCAATAA	CCTTGCAAGA	TCAACACTCG	ATAATGATGA	TGACAAGGCA
35581	GCAACCTATT	ATAACACCCC	TATATATGGC	TGGTATTGTA	AAATGGCTAT	AAAGGACTAT
35641	GAAATACCAG	ATTCGTACAG	CAAGGTTCGAA	GCGGAACATA	CAGTTGAAGG	AAGAAAGATG
35701	ACCTTTAATA	TAAAATGGAG	AGGCGATACC	ATAAACAACC	TAATAACAAT	CATCCCTTCA
35761	GTGACAGGTT	ATCTTGCTTC	CATCTCTGAA	GACGCAGATG	TGCAGGCGCC	ATTACTTTTA
35821	AACTGCAACA	ACTGTTTTAT	AGAGGCAGAT	ATGAGTAGCC	TCTACATGGA	TGAGAAAAAA
35881	ACAGAGGCAT	CATTTACCCCT	CAACTTACCG	GAAATCGAAG	GAGCTGATGC	GAATGCAGTC
35941	TATGAAATAT	GTATAGTAGT	AGTTTGATGG	AGGACAAATA	AAAAATTGGA	TACATTTTCA
36001	GTAATTTTAT	TTAACTCTTA	ATCTTATATA	CATTTTCATG	ACATTTTCAT	AAAAATCACT
36061	ATCAGAGCTA	TAGTACAGAA	ACTGGTGCTG	GAGCTGATTA	ATCCTCCTGG	CCATGACGGC
36121	AGATGTCCCT	CGTGAAGTGT	TGCGTCTGCC	GTCTCTGACC	CTATCAACCA	TCCTACCTGA
36181	ACCTGGGTTT	AAATTAACAT	TTGGTGCATC	AAAGGGGGTG	TGAAGAGGTG	AAGAATAAGG
36241	AGAAGGTACA	GGACTAGCAT	CATAGTCCCT	CACAATCCTT	GTTCTTCCCC	TTCTAACAGG
36301	TGTGGATGCG	GGAGGGGGCA	TATTAGCCGT	GTCTAGCAAC	TCCAACATCT	GTGCCTGGTA
36361	TTCAAGTGCG	TTAGACACAA	ACCTCTCAGT	GTCTTCTGCT	TCATTGTCAT	TATTAGGAAT
36421	AACACCATAA	TCTTCCATGA	GGGCGTCACG	CCTTCCTGCC	TGATGCCTCT	CAAAGAGCCG
36481	TTTTCTTTCC	TCAGGGTCAT	CAGAGAAGAG	TTTGTGAACC	CAGCATGGTT	TCTTAGCCTC
36541	CCCTACAGCC	AAGTCAGGCA	CAAAAACCTG	CTTATTTTTT	ACATTCTTAT	AGGGAAGAAG
36601	AGGGGGCAAC	ACCTTGACAG	GAGCAGGAGT	GGGGGGTAAA	GGAGTGGTAT	ATTCACCCTT
36661	ATATGAACTA	GGTTTATGGA	ACTCCTGGCA	AGGTATTTTG	CCCTCCCTGT	CCTCTTTTAG
36721	AGGGGCGGCC	TTACAGCCTC	CAAAAACCTT	CTTAGCTATT	TTAGTATGCA	TTTTCTCAAT

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36781	CCTTTTCATA	CCTTCAGACA	ACATCATGAA	CCCATTCTTA	TCAAACCTGAA	AACCCCTCAA
36841	GAAAAACTTA	TAAAAGGACT	TTTCATTCTT	TGCAAGAAGA	CATCCCGCCA	TTAGCCTAAT
36901	TGCACTCAAA	ACATCCCCTA	TCTCCCCTTC	CCCATACTTT	ATTTCAGGAA	ACCTATTGAG
36961	TGCTGAGCAG	GTACTTTCTA	TAGATGCTCT	CAGAGCATCA	TTTTCCAAGG	TTGATGAGCT
37021	ATAATCAACC	TTCTTACAGC	TGGCACACTT	CTTAACCATA	TCCTTTATTT	CCATTCTTTT
37081	CTTATGTTTC	TTCATCATTT	CTGATGAAGA	GGAAGTTTTG	ATTGATGTCT	TAAAGACGAT
37141	ATTCTTCCCT	TTTATTGTCT	TTCCTTTCTT	GCTGACGATA	CACCCCTCCCT	TCTTGCTGCT
37201	GCTGCTGCCG	CTGCTGCTGC	TGCTGATGAT	GTCAGTTCCG	GCCATTTTTA	ATGACTCTAA
37261	AAAACAAGGG	GGTAACACAT	GTAATAAAAT	GCATTATAAT	GTAACATTCT	TTTATTTTAA
37321	TAAAAGGCAG	TAGAAAATTT	GTACATCATT	TACAGGCAGG	CATATACAAA	AACACATCAC
37381	TTTATAGATT	GGGCAGGGAA	GATATTTGAT	CAGCTTCCGA	AGGGTCAGTA	TCAAACCCAT
37441	TCAACAATGA	ACTGTGTACA	TGTGCAATTT	CGTCATCCAA	CCTAGCATTA	TTAGAGGCTG
37501	ACTTAATGAG	ACAGGAACCA	ATTAGCTGCT	TATTAGCACT	CCACTTTGAA	GCGTACTTAC
37561	GCTTCACCTT	CAATTTCTTA	GAGCACAAAC	TCTTACCAAT	TACATCATTG	ACAGTTGTAT
37621	GGAACAGGTT	ACCTCTAGAT	ATACAATCTC	CAAGCTTATT	CTCAGTTTCC	TGTCTCCTTT
37681	CTCTAAGAGC	AGAAAGTTCA	GCCAGATACC	TATTGGCAAT	CTCATTATAC	TCCTCATCAA
37741	TATTATCGAG	TCTACACATA	TACCTCTTGA	CATCTACACA	CAGTCTCTTA	CTCTCAGAGG
37801	AAATATTAGA	CATCCTGTCC	TCGTCACGCC	CATACCTTGG	CCTCTTTCTA	CTGTTACTAC
37861	TACTACTACT	ACTTCCTGAG	GAAGTAGAGG	GCTGATTAC	TGATGACGAA	GAAGGTATTA
37921	CTTCTTCGTC	ATCAGAGTCT	GAATCAACAT	TAAAACAAAG	GTTAACATTA	ATGTTAAGAG
37981	AGGTTTGAGT	AGGGGCGGAT	GAGGTAGGGG	CGGATGACGT	AGAAGCACTA	GGCATATTCA
38041	AGTCAGGCAA	AGACATTGTG	TCATCATCAT	CATCATCATC	ATTAACATCA	TAAAGTGAAC
38101	TACTAATACC	ACTAATAGTA	TCAAAGGTAA	TATTGTTACT	TCTAGGGGGA	ACAGTCAAGT
38161	CAGGAAGTGA	CTCTGAGTCA	TCATTATCAT	CTACCTCTGG	GGGGACAAAC	ACTACAGTAT
38221	CCTCATCATC	TTCAATGAAA	TTGAAGGATG	TCACACCAGA	CAACAAACTA	GGGGAGACAT
38281	TATTATCACC	TTCATCATCA	TCATCATCAT	TACTCAAGCA	TTGAGTAATG	TCAATAGTAT
38341	TGGGAGCTAC	ATACTTAAGC	CATTACCTTT	CATATTCCATA	AGGGGGGGATA	TCCTTGAATT
38401	TACCCATTAA	AGCTGCCTCA	TGATTATCTT	CAAAGGTCTC	TTCACTGAAT	GCATGCATTT
38461	CCTGTCTAGA	TAGAGTTTCA	AGCATGAAAC	TCAACTTGGT	ATAAGCCCTC	TCCATATAAA
38521	CATCCTCATT	CTCATTAACA	CCTTTGGCAT	TGGGGACAAA	GAAAGTAGGT	GCTAGAATAG
38581	TTGACATCTT	ATTAAGGGTA	TCCTTTACAC	CTTCATCATT	AACATAGTCA	GCAGACAACA
38641	AAAATGAGTG	AAAAGAGGCA	TACTTGTACA	CCTCTTCATA	CACTTTACGG	AAGAACCACA
38701	CAGGGGGTAT	ATAGGCCCTA	CACATGGGAC	ATAACAGGTG	ATTTTCATTG	ACCATATGCT
38761	CTTCAAATCT	CCAGGTGAAA	AGACACTCCA	GGTGGACACT	TTTCCTGCAA	CACGGCATCC
38821	CTCCATTTGA	CCAGTTATAG	CAATCCGTGT	CCGAATCGTA	ATCACCCATA	CAGATGGGAC
38881	AGGTAGGCAC	CTCATCAACG	GCGACGGTTT	CAGCCATCTT	GTTGTTGTTG	TTGTTTACTT
38941	TAAAGAGGGA	GAAAAGCCAA	CGCTATAGCA	ACTCATTTCT	TTACTTTAAA	CAGGTTTCATT
39001	ACAGTCCCCT	TAAAAGGGAA	TATGTGCTTC	ATGGCAAGGG	CATATTCTGT	GATTGAAGGG
39061	CGATTTTGAT	AGAAATCAGT	GTCTGTTCCG	CTTTGCAACA	ACATCAAAAA	GTGCATGTTT
39121	GACATCAAAT	TAAAGGCAGG	GCCTTCCATG	TTAGAACAAG	CAACAACATC	TTCCAGTATA
39181	CTGGAAGCCA	TTACTACTGAA	ACTGTACGTC	ATTGAATAGG	CACCTAGACA	GTGTCCCCTA
39241	AAGAACTCGG	GAGGTGTGTG	AATGTACTGC	CTGATTAGTT	CTTCCGTGTT	CCTAAAATAT
39301	TCATCGTTGT	AACAATAACC	TAGAGGGTAT	GAGAGTCCCA	AGTCAATCAT	TTTAGGTTGG
39361	CCAGATATGC	TATCTATAAC	AAAGTTATCA	GCCTTTATAT	CGACATTAAT	AATTCCTTCA
39421	TTTGCAACTC	TTGTAATTAC	ATTACAAGTC	TCAGCCAAAA	CAAAAGGCAT	GTTACCTTTT
39481	AGTTTTTTCAA	ACATACTTCT	TACAACCTTT	CGGGCAATGA	AAGAGTCTGT	TATTGGTGCG
39541	ACTGTATCAA	CCCCCTTTAC	CTCTGGTAAA	CGTCCCATCC	TTTGAAGCACT	GACAACCCCA
39601	TACAACAAGC	GTGCGTCCCT	TGACTCATAA	TACTCCCCAC	CATCTAAACT	ATCCTTGACA
39661	CACCTAATGA	CATCATCAAT	ACTGATACCT	GCAAATGGCA	TCTCTAAACA	TAACCCCTGA
39721	GGACACACAC	CAGTCACCCC	AACTACCCCC	TTAATATTCT	TTCTGTATAC	AGAAAGGCCA
39781	TTAACACACT	CAAAAACAAA	CTCTTCATAG	TTCATATCCT	TCATAAACTT	GACAACAGTC
39841	CCCCTATTCA	CAATGTAATA	GACCCCATAT	TTAATCTCAA	AAAAGGTCTC	CCAGGGACAG
39901	ATGAAAGTGT	TAAAGTCCTT	CACATCTTCA	GGCACTTCGA	CCAAATCAGA	CAAACAACCA
39961	CGAGCAGTCT	TACGGAAGTT	TTCCCAGTTC	TCACACTGGT	CAGAAACTTC	CTTAATTAGC
40021	GTGCTAGTCT	TTTGTCTAAT	TCGCTCACAG	GCACCTGAAG	GCAATTGGAA	CACCTCTACA
40081	GCCATATACA	TTATGTCCAT	AATCTGGGAG	GACGGAATAT	TACACTAGAG	CAACTCCTTA
40141	AGAAATGTGTC	TAGTGTCAAA	AAATCTCATC	TCTTCATCGC	AAGAAGAGGT	GGGCCAATAG
40201	AAGCCAACTT	TAGGGTCCTT	TCCATAGAAA	CAGGTATCAT	GGACATACTT	GCTAGACTTA
40261	ACAATTGACC	TATGGCCAAT	TCTCAACTGT	TGACAGGTAT	CATAATTGTC	CTCAAGACTA
40321	CAACTCTTCT	CAATGCCTTT	AAAGTAGTAA	GGGGAATCAC	GTTCAATCCA	CTCATTATAC
40381	TGCCTCTTAC	ACTGCCTAAT	CACCTTGGAC	GCACACACGT	TTGAAAAGGT	GCGAGTAGTG

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40441	GGAGGAGAGG	GAGCAACTTC	AGACTTCTTG	AAACGTTTAG	GGGGAGGGGG	CGTGATGCTA
40501	AGGTTGATGA	CGTCATCCCC	AGTCTTGATA	GTGATGTTGT	TGTTGTTGTT	GTTGTAAGCG
40561	GGAACAGTTG	TGGCTTCGGA	GGTTGAACCA	GACGCGTAGT	TGTTGTTGTT	ATATTCTTCC
40621	ACAGGCCGTT	TTTTATTCCC	CTGATGGTAA	ACATACTGCT	GGTGGTGGTG	GTCTCCACCA
40681	GTATTGATGG	TAGTAGTAAT	TACAGTGGGT	CCCCCATTG	CCTATGGAAG	AAACAACAAC
40741	AAATACACGA	TTAATTCAAC	GCCCGGCACA	CTAATAAAGT	GATGTGTTTT	TTATATAAAA
40801	AATAGCCCAT	AATATTTAAC	GTTACGTTAA	TCAAAAAAAA	CAACAACAAT	AATAGTATAT
40861	TATTGGTACT	TACTTTTGAT	GGGTTTGGAG	CGGAGACTGA	AGTAAATCCA	GAAAACAACA
40921	GTTTTACTGT	TGGGCACTAC	ACTGCACTGG	TGACGTAGTA	GTAGAAGTAG	TAGTGGTAAT
40981	AGTCCACTAT	TGTCACTGCA	CTGCACTAGT	AGTAGTAGTA	GTAGTAGTAA	GAGCGTTGGA
41041	TAAGCTCGGG	TTGGCTGCTA	GAGCTGGAGC	TGGAACTGGA	GCTTGATATG	TTGGCTGTGC
41101	CTCTGCTGAG	ACTGATGCTT	CTGGCCTGCC	CCGGCTCGCT	TATATACAAG	TTGTCCCCCC
41161	TCACCCCCAC	TTCCAGAAAT	TTGCCGTCGA	ACGCCAGTTC	TCCAACAGAG	TGGGGTCCAG
41221	ATCTGGCTAC	GGGTTCACCT	CTGGCCATAC	CCTGTTTAGG	GGTCTAAATC	CACCCCGGGC
41281	ACTAAATGGG	GAGGACCTAA	GGGTGTTATA	ACAACATGTA	AGCGTTGGGT	AAGAAGATCT
41341	GGATCTGGAT	GACCCACCTT	GTCCTTCTTA	TCCTATCCTT	ATCCTTGTC	CCTGTCTACC
41401	ACCACCTCAC	CCCATATCTC	TCACCCCATC	TCACCTATAC	CCCCATCTCA	CCCATCACCT
41461	CTATATTCCC	CCACCTTATT	CACTCGCTCC	AGTTTCAACA	CCCTGTTCTT	GCCGAGCCAA
41521	CCCATAACCA	GATCTGGACC	CCAGTCTTCC	CTTTTATCCC	TAACCGGCAC	CATTTATGCC
41581	CCCAGGCGCT	AGCGGTGTAT	ATAAGGCGGC	GCGGCCAGGC	CAGAAGCATC	AGTTCTCTGC
41641	AAGCCAGCAG	AAGAGCAACA	CAACAAGCAC	TCTCTCTCCT	TCTACCTAGA	AGAGACCTGC
41701	CAATACTCAA	GCTACAAGAA	TGGCCTCTCC	AGCCCCCGCC	GCACCAAGTC	CTTACACCAT
41761	GTTGGACTCT	AAGTTACTTA	GTTCTGAGGA	ACTAAAGGAA	CTAATTTCAT	ACGTCTCGAC
41821	TAGTCTCGCG	CGGTCTGATA	TGAAGAAACA	CTTGCTCCAT	CTATTGAGAG	AGCACGAGAA
41881	GATCTTCCAA	TTCATACAAG	GTAAGCACAA	GTTCTCACTA	TACACTTTGG	ACTTTGAAAT
41941	TTTCTATGTT	ATGCTGAATA	TTTTGTTGGT	TGAAGTGAAA	AATATTCTAA	GTCCAATTCC
42001	TTTACTCTTT	GACAGAAATC	TCCAACCAGT	ACGGAGACTA	TGGATGTTTC	ACAATGGCCC
42061	CGCCTCACCT	GAACGCTGCA	GCCGATCTCT	TGGATAAGGT	GATGTCCGGA	CCTCTATCTC
42121	CCGAAGGCGC	CCAAACTTCG	TCCCCGGCTG	CTTGTGTTGG	TGCGAAGGTT	GTGAAGGCAC
42181	TGGTGAGCTT	TTGCCAGAAG	ACCCGCTTCA	CCACCAACAT	TGTGATGAGA	GAAGTTAAAG
42241	CCATGGAGTT	CCAAGGAGAC	GATTTTAACT	ACTCTGCCTT	GTGTGCAAGT	ATGCCCCAAC
42301	GCCCCGTGAC	TGAGAGGCAG	ATGTTGCCCC	TTATGAAGAG	TGAGGACGAA	GAAATGGGAG
42361	TGTCTGCAAA	CTTCTCTCCA	GTTCTGATG	ACGTCATCAA	CCCTTCAAGC	TCCCCCTCTG
42421	GACAAGAAGT	CGACTCATCA	ACTTCCGCTC	AAATTTCTGG	TATGTTTCAA	AACGTGTGGA
42481	GTTTGCTTGA	AGAGTGTGGT	AGTGGCTCTA	ATAGTAATAG	TTCCCCTGTC	TCTAGGACAG
42541	TCTTAGTTTG	CACCCTGTTT	ATAATCCAAG	TGTTCAAGTT	TTTGGTGA	AAAGTGTCTA
42601	ATGTGAACGT	ACTTAACCAG	TTGTTTGGAC	ATGTTGTTTT	TGGATCACTT	GATGTGGCTC
42661	CAAGTAATAA	TAATAGTGTC	CCATCAACTG	TTGTTAACAA	CAACAACAAA	CCCTCGACCT
42721	CTAATAATAG	TAACAACATC	AGTAACAAGC	GTGTTGGTGG	TAGTAATAAC	AGTGGCGGCG
42781	GAAGATCAAA	GAAAGTTACA	GCCACAGCCA	AAAATCCCTT	TAATAATGTA	GATGGGGACA
42841	ATCATGGCAT	GTTTGCCGGT	GCCCCGTGTT	ATGTTAATTT	GGATGACTTT	GTTTTTCCCC
42901	AAGTTGAAAC	TCTTACAAGT	AAGAGACACCA	TCCCTAAAGA	AGAGGTAAAT	GTTATGTAAG
42961	ATTTGAGTAA	AATGTGCCGT	AAAAC TGCCC	TTACCCCCCT	AGAAATTCAT	ACCTTTAATG
43021	TGTTTCATCTC	TGAGATTAAC	CCCTCCAAAT	ATGACCGTTC	AATGTTTTGC	AAGGGATTTT
43081	TGACTGCATG	GGATAAGTTT	GTAGAGGGGG	ATACTGCTGG	CGTTAAACGC	TTCCGTAAC
43141	ATATCCTCAC	TCGCTCAAAC	TATGCCTCAG	CCGCCAGGGC	CGTGTATGAA	GCGTCAATTA
43201	AGGGGACTGT	TTATTATAAT	GACAAGTCAA	AGTTTCTGTT	CCACGATAAT	GTTAACCCCTG
43261	ATCTGGACAA	GAGCTGGGGT	AACAAGAATG	GGAAGAAACC	TAGACTCCCA	GCTAACTTGA
43321	TGGCATTTCAT	GGGTATTGAC	ATTGTAAAGG	TGTGCGCTAA	GGGGATTCAA	AAGTATATGT
43381	TTGCAAAGCA	ATTCCAACAT	CCGGAAGTGG	AAGAACTTGT	GCCTCCTATG	GCTGTATACG
43441	CAAAGGTTGC	CGCAGGATTG	AAGTCGGGGA	CTTTGTTTGA	TGACTGGGAC	CTGCCTGAAT
43501	ACGAAAATTG	TCAGTTTATC	AAGTATGACA	CAGAAGGGTG	CAAAAAGCAC	AGTGAGTTAT
43561	ACGCCAAACA	ACTTCTCCGC	ACAGGACTTA	ATCAATACAA	TAAACTGGAA	GAGGGACAGA
43621	GTGCATTCCC	ATTTGCAAA	ATTGTGACGG	TAACATCCGC	CTCTAGTGAT	GATATTCACG
43681	GTGACACAAT	CATTGAATTG	ATGTACAAGA	CAAAGGATGG	CGTAAAGGGA	GTCTCAAAAA
43741	TTGAGGACGA	AAACATCATC	AAGGTGAATC	CAGCAGAAGA	AAAGAAGAAT	AATAGAGTAC
43801	AAGCCGAGAA	GACCCTGTAT	TTTGAGATTG	ATTCCGATGA	TGAGGTGTGT	GAGAGAACAG
43861	AGGAAGAATT	CTTCAGGCCT	ACATCTGTTG	TTGCTGCCCC	GACAACACCC	CTCGTACCTT
43921	CTAATGTGGA	GGAAGAGGAA	GAGGAAGAAG	AGCAGATGGA	AGAAGAGGAG	GAAGAGGAAG
43981	TAGAAAGGGA	AGAAGGATCT	GATAAGGAAG	ATGACGGAGA	CGCACCAGCA	CAGGAAGAAA
44041	TGGAGGAGGA	GAAGGAAGAA	GAACAACAAC	AACAGCCAGA	AGAAGAAAGC	AATGGTAATG

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44101	AGAACCAAGA	AGAAGAACAA	CAACAACAAC	AACAACCAGA	AAGAGAAGAG	GAGAATAAGG
44161	ATGCAGATAG	TGACAGCGAC	AGTGATAGCA	GCAGCAGCAG	TAGTAGCAGC	AGTAGCAGCA
44221	GTAGTAGTAG	TAGCAGCAGT	AGTAGCAGCA	GCAGTAGTAG	CAGTGAAAAT	GAAGCTGAAA
44281	AGAAGAAAGA	AGAGGAAGTA	CCTGCCAAGA	TTCAGAAGAG	AAAGAGGCTA	AGTGAAAGGC
44341	CATCAGAAGC	TGCTTCCTCT	CCCAAGAGAA	TGAGAGTAGA	AGAAGAACAA	CAACAACAAC
44401	TATCACCATC	ATTGGACATA	CTCCAGACTG	CAGTTGATGA	GATGATGGAA	GAAATTCCTG
44461	CGCCTGAGCC	TATCGTTGCT	ACAACCTCAC	CCAAGGCAGC	GACACTTGCA	CTCAAGACAG
44521	GATTTAGTTA	CTCTTCATTC	GTAAGAGGAG	ATGACCTTTC	AGTAGCTGGT	AATACTTCCC
44581	CTACTGAACC	AGCAGCTGTG	CCCGCTGCTG	CCACTTGCAC	TTCCGATGTT	GGAAATGACT
44641	TTTTGGACAT	GTTGGACGGT	TTACCTGGCG	ATATAGTAAT	GCAACCTGGC	GAATGCGACG
44701	TGACCGCAAA	ATTCTTTGAG	GGCATCACCC	TACCAGATGG	TACTGATAAT	GAATGCACAG
44761	GTTTCGATGA	TCTTCTTAAA	GCCACCGAGA	CTGATAACAT	TATAACCACC	ACATGCTTTA
44821	CCTCCCCGAT	TCACCTTCT	AGCAACTCAG	CCCCCAGAAA	GGATATTGAT	AATTGCAGTT
44881	CTATTAAGAG	GTCTAGGGCA	GGTTCACCTT	TTGACACTGA	TGATGATAGT	GAAACAAATG
44941	AGGTTGAAAA	GGAAGCCCC	AAACGTAAGA	AGCACTTGAA	AAAGAGGCGT	AACAAGTCCC
45001	ACCGTGGTTC	CTCTGGTCT	GCTTCTTCTT	CTCATTGTAT	GAGTAGTGAT	GAAGAATCAG
45061	AGGATGAAAG	GGATATGAAA	TCAACATCAA	AGGTTTCAAA	GTCACCAAAA	GCTCATGTTA
45121	AACATTCCCC	TAAATATGAT	GCTGTAAATA	GTGATGTAAA	TAACCTACAT	AACAATGTTA
45181	ATAGTACAAC	ATGCATGTCG	TCATCAGATA	GTGATGCAGA	AGCACAGCCT	AAAAGCCATA
45241	ATAAAAGCCA	CTCTCGTAAA	CACTCTTCTT	CCTCCACAAG	TGATAAGAAA	CAGAACCAAC
45301	AATGCTCAAT	CAATACTCAA	AATGTCAAGA	AGACTGTTGT	ACAGTCTCCA	CCTAGTTTTA
45361	GAAGTTTTAG	TCCTAAGAAA	GATGAGCTTG	GTGATTTCTT	GTCACGCAAG	CACACAAAGC
45421	CAGTTAGGCC	CTATAACAAG	AAGCGTGATA	ATGTTAACAC	CACTAATAAT	GTAGTACAGA
45481	GGTCTGCC	ACCGACTCAA	ATGATACTCA	ATCAATGTAC	AATAATAATC	TTAGTACTTA
45541	ACAAGAAGAA	CTATATTTTT	ATAATATTTT	TACATGTCTT	AATAACAAAC	AAAATAAAAG
45601	AAAACCAATG	TATTATATGT	TTAAAATCAA	CCCCATTTGC	ATGATTAAAC	TAACATAGT
45661	GTGTAAGGAA	AGAAAAA	CATGATTATT	TCTGCCATTA	AAACAACAAC	AAAAATCTA
45721	AGCTTCTCCT	TTCTTTCTGT	GTCTTTGCG	ATTGCGGAGT	CTTTCTAAAA	CCACAGCAAT
45781	ACAAAAAACA	ACACAAATTC	TCTACTGCTC	TCCCTCACCA	ATCCCCCTAT	CGCCCTTATG
45841	CTCCTTCTCC	TCTCTATACT	TCCTCCCCAT	TCACTTCTGA	CTATCAATTT	TCTGATTTCAT
45901	TTCAACAACA	ATGCCACCAA	TACAATTACT	ACCCACACCC	CCCTCCATCT	ATGTCCTCGA
45961	CGACCTCTCC	ATCGTCTTTG	TGGGATGATG	ACGATGATGA	TGACGAAGAA	GACGAAAAAG
46021	ATGTCAAGCA	AGAAGTCTCG	AACCGTCCCC	CCATTTTTTC	GTACATGGAA	ACTGTATCTT
46081	TTAGTGATAA	CGATGAGGAC	GATAACAAGG	GAGAAGAAGA	ATGTTTTTGA	TCAAACCTTG
46141	ATATGTTTTG	TGATTTCAGT	AACATGCCAT	CAACTTCTAC	TGCCCCTTTC	CCTCCTCCCT
46201	CTACAACAAC	ACCACTTCCT	ACTCCTCGAT	CCATCATGGA	TACTGATTCT	GATGAATGTG
46261	ACGAAGAAGG	AGCAGCAGCA	GCATCAGCAC	CGTCTATTGC	GCCCTCTTCT	TCTATCCCTG
46321	TCGGGATCTC	TGAAGCTGAA	TTGAAAAA	TGGAAAAGAA	AAAGAGGAAG	GAAATTAAGA
46381	AACTCAAAAA	GATGATGAAA	GATCCTCTCC	CTCACCTATA	TGTAGGAGGA	GAACCTCCTG
46441	TCGCAGCAGA	TTATAAACA	AGGGCAAACA	TTTCCCTTTA	TAAAGTTGAC	CCTAGTATCG
46501	ATATGTGCGG	TGTCGCCCT	CCTCAATTTT	GCGCTGAATT	GCCCACCCA	TCCATAGATG
46561	TGTATACTTC	TTCTATGTA	TTCTCTCTC	CCACACCTGC	CATGCATAAT	AAGAAAGGGT
46621	CCAAGAAATG	TCAATTCCTT	AAGGGGAGAA	AGGCTTTGAG	GAAATGGATT	CACGAGAATG
46681	TATGCATGGC	CCCTCCCGGT	AAAAGGGGAG	GTGTATTTTT	GGCTCACTTG	GAACAAAGAT
46741	TCTTGGCTGA	ACATGGAGAT	GAATACAAGG	TCCAAGGAT	GTTTGTTCAT	AGAGTATTGA
46801	ACAAAGCTTT	CCCCAATCTG	ATTGCTCGTG	CAGACACACT	GTGCAGTGAT	ATGACATTCT
46861	ATACTAACCT	TTGTTGGATA	GTTAATGGAG	TTGTCGTATG	CTTTGATAAA	GATGATGGAG
46921	GAATACATGG	CGATGCGTCA	GAGTATGCAA	CAGGAGAAAA	TTTTGATACT	GTAGTGTTCC
46981	ACAAGAGGGA	AGAACAAAAG	ACCAATGGGA	GTGCCAGTAA	GAAGAGGCGT	CTCACGCTG
47041	ACACTAGTAA	TATGGGAACA	AGCACTGATG	TGCAAGAATT	CCAAACGATG	GGAACAAATA
47101	CTGATATGCA	AGAATTCCAA	TCAATGGGAA	CAAATACCAA	CCCCATAGAG	ACTTCATCAG
47161	TGGGTGTGAA	TACCAACCCA	CTTCCCAACC	CTCCCCAAG	ATTGGTAATT	ACTCCTTTAA
47221	CGAATGATGT	ACCAGAATTG	GACATGATGT	GGCTTTATTC	GCCTTCCAGA	GGAGGTGGAA
47281	ATTCTAGAAT	GAGTGCAAAT	ACAGGAACAT	CTCCCTGTG	TAACACCCA	ATTCCTACCT
47341	GCTTCACAGG	AGGTGCGAAT	GTAGTAGTGC	CTAATGGATT	TGTCCCTCCC	ACGTTCCCTT
47401	TAGAATGTGA	CGAAGATGAT	CCAAGTATTC	CCAATTCTTA	CAATTACGAA	GAGGATAAAG
47461	TCTTTCATCC	ATTTTATGAG	TATATGGCCA	AATATCTATC	CCCTCTTGTT	CCATCATATA
47521	ACAAGGGACA	GACTTGTAAT	GTTGTCCAGG	AGTGGTTCAA	GGGATCCTTC	TCTCTTGCAA
47581	AGCGTAGAGG	AACAGTCCCC	AAATTCTGTA	GTAACATTTT	CCACGCTTTC	TTTTGTAAATA
47641	TGGATGTATG	TACTGCCATG	TGCAAATGGG	CGAAGACTGT	AATTAGACAT	GGACAATATT
47701	GTAATAGATG	TATCGTAAGG	AGGTCATGTA	CATCCATGCT	CGCATATCAC	TACATTGTTT

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47761	GCAGAGACGC	TTCATGTGAT	GTTCCCAAGT	GCAGGGAAAG	GGTTCGCAAC	GACATGGATG
47821	ACTGATTGAT	TGGTTGATAT	GTGACATTTT	CTGTATATTG	TGTAAATAAG	ATACCAATAA
47881	ACTAATGTTT	TATATATGAT	TCTATTTTTT	TAAAAACCTT	TAAAAATATA	CATATAAAAT
47941	GATGTATTTT	TGAAACTACA	CTCTGGCAGA	ATCAGACCAG	ACCCCTGACC	TAAAGCAGAC
48001	CACAGGGGAG	TCTTAGAGAG	GGGTGTGAAT	CTGGCTAGGG	GTTTCATCCCT	CAATGTTAAT
48061	CACACGCAAG	TAAAAACACC	ACTTCCTAGA	AAGGGAGGGA	AGGGGTGACT	TGGTGATATC
48121	ATAACTGGGG	AATTTCTCT	CCAGATATCT	GGCTGTACAC	GTGTGAGCGC	TTCTGGGCGC
48181	GACAAGAAAA	AAATTAGTGA	TATCATAACT	GGGGAATTTT	CTCTCCAGAT	ATCTGGCTGT
48241	ACACGTGTGA	GCGCTTCTGG	GCGCGACAAG	AAAAAAATTA	GTGATATCAT	AACTGGGGAA
48301	TTTCCTCTCC	AGATATCTGG	GTAAGAAAAA	AAATTAGTGA	TATCATAACT	GGGGAATTTT
48361	CTCTCCAGAT	ATCTGGGTAA	GAAAAAAAT	TAGTGATATC	ATAACTGGGG	AATTTCTCT
48421	CCAGATATCT	GGCTGTACAC	ATGTGAGTGT	TCTAATCTCA	TTTTTTATAT	AGAAAAATATA
48481	ACTGAATTAG	CTCTCTAAAC	TTTTCTCAT	TTCTTACTCC	TCTTTGTTTG	TATGTCCTAC
48541	TACCAAGTGT	CATATAAGAA	CTGGAGAGAT	GGGAGTTTTA	AATAACAACC	CTTCTTAATC
48601	CCTTTTCATGT	TTATATTTAA	TAAATATAAT	CACCATGGAT	ATTTCAAATA	AGACATTATT
48661	TTTAGTAGTC	GGTACCTTTT	TTCTGACCAC	TTGTGCATCT	TGCAGTCCAA	CTCAAATCGT
48721	CTGGAACCTC	ATGGTAGCTT	CATTTGTTGG	ATTTCTAGGA	CATAAACTAC	TTAAAAACAT
48781	TACACCTGTC	AATCTGGATC	TTGTCGGAAA	AAGCTTCGTA	TTCTCTGCAA	GTTTAACCAT
48841	CTCAGAAGAA	GCCCGTTTAT	TGAGGATTGG	AAACGTATTA	AGGGACTATA	ATGGCAACAA
48901	TTTTGAAGAG	TATGAAGAAG	AAGAAGATAG	TGGTATTGAA	GAATAATAAT	AATAATAATG
48961	GTTTGAATAA	AATATAGAGA	TACATTTATA	TTGTTTTATT	TGCATTATAT	ATAAAAAAGC
49021	ACTACAAAAT	TTGTACACAT	ACATTGAGAG	AAAAAATTGA	TACAATTTCT	TCCTTTTTTT
49081	TACTGCTATC	TGATTTCTTG	ATATTGAGAG	GAGTTAGTAG	TAGCAGAAGA	AGTAGCACCA
49141	TACTCCGGCAG	CAGAAAGTTGT	AGGGATAGGG	GCGGTGGCAC	CGGTGGCAGC	GGCAGCGGCA
49201	GCAGCTTCAC	GGCGTTGTTG	TTGTTCCAGG	ATAATCTTTG	CGCGTTTATT	CATTTTCAGTG
49261	GTGCGTGTA	AGATGCCTCT	GTTGTATTGG	ACCACCTTAT	TCCTATATTC	TCCGATGTCC
49321	TTATCGCGCT	TCTCAAAAAA	CTTGCCATT	TCTCCACAAC	GTTGACGGGC	TGCCCATGCA
49381	GTCATAGCCA	TAAAATCAAA	TTGGTCAGAG	GTGATATTAT	GGTTGTTTAG	AAGGTCCACA
49441	GCGTAGGCCA	TACAGCTAGC	GGCACGTTGA	ATATTGGAGT	ACTTGCTGTT	TCTTGGTTTA
49501	ACGGTATGGA	TCACCTTACT	TCCATCATTC	AAGAATTCG	CCTCTTCTCT	GTGCAGAAGA
49561	GATGTGCCTC	TGCTAACTGT	CCCGTCGTCG	AGGACAAAAG	CAGGTCCAGG	TATGGGTGTT
49621	TCGCAATCTC	CGTAAGAAGT	GTCAGCAACC	GTGAAGTGGG	AAGGATAGG	TCCATTCTCT
49681	CCAACCTCCAG	AAGTGAGTGC	AGCGCTATAA	ACTTCTCCGG	TGATTTGGCG	AGTGACTGGA
49741	TTACTTAGCC	CTGCGTCAAT	TTCAGACATA	TTTCCTTCTT	CGGGTGTGGG	AAGGAAGGGC
49801	CTAGGTGGGG	CGAGAGTGTC	GTTGTTTCTT	TCAGCCGTAG	TAGTAGCAAG	AGATGTGACC
49861	CAAGAATATT	TCTTGTTCTT	AGACTGTCTT	CCAGAACCGT	CGTCGATAAC	AAGAGATGGT
49921	TCGTCCTCGT	CACTGCTACG	GTTGCCATT	TGTTTCTTCT	TCCTCTTTGA	ATCCTTCTTC
49981	TTAGACTTGG	ACTTGTTCTT	GGGGCCAGGA	ACAGGTATAA	CATCCACATT	GGGTGTAGAA
50041	GACATCCTCG	TTCCAGTAGA	TTCAGTCAGA	GATGTAAGTG	CTGGCACGGG	AGGCATGGCC
50101	GTAACAGAGA	TACCTTGTGG	TACTCGGAAC	ATTGCAGAAG	AAGACGTAGA	ATTAGAGTTG
50161	ATACTTGTA	CAGCAGAAGC	AGAAGTCCGA	GAGGCGATGG	CAGCAGCTCT	GGCGGCAGCA
50221	ATCATAGGGG	CTGTAGTGGT	GCAAATCGGC	AGAGTGTTGG	ATGAAGTCGT	GGCAGCAGAG
50281	GTAGAGTTGA	TGTGAGACAT	CTTGATTCTT	TGTTTGGTTG	GTTGGTTGTG	GACTATTGTG
50341	TTCTCAGAGA	GGACTTGTAG	TCGACTGTGC	TCTACCCAGA	TCCACAGCCC	CTTTTCATATC
50401	CGATTTTCGG	GGGTTGCCAG	ATACTAATAT	ACTCCTCCAC	GCCCTCTTCT	TGCGCCATAT
50461	CTATAAGGGT	CGAAAGTTGT	ATACCTTGAG	TTGATCCGGT	TATAACCGCC	ATTGTTGGGT
50521	CTTTCTGAGA	ATCGAGAGTT	GCGATCACGG	CATGGCCTCG	TGGGGGAATT	TTCATTGACG
50581	TAAGCAGTAA	CGTCAGAAGA	ATTGTTGGAG	CGGGGTGGT	TAAAGTGCCT	CTGGTGTGG
50641	TGGCGGTGTT	GGTGGTGGCG	GTGGTGGTGA	GCAGCAGCAG	GGGCGTCGTA	GTGTTTCGTAT
50701	TGCTCACAAT	AATAGTCCTT	GGGCACTTGC	ATTCTTCTTG	GATGAATATA	TCTTTCTCTT
50761	TCTTCGTATC	TGGGTTGCTC	CTCTCTTTTT	ATGTGTTTCT	TTTTTATGTG	AGTTACTCTG
50821	TCCATCTCCA	TTTTCTCAGA	ATTTCTTCCC	CCTCCATTGA	CGTCATCCGA	ATAACTCAAC
50881	TGGCGCCGGT	GATACTGATG	ACGTCTTATT	CTTCGGACCT	TATTATCCCC	TCCTTCTGAA
50941	TCATCAGATG	ATTCAGAGTC	AGATGAATCA	GACGAATCGG	ATGAGTCAGA	GGAAGAAGAA
51001	GAAGAATCGG	ATGAGTCAGA	AGAGTCCATG	GAGCCACTCC	CAATTCCACT	ACTAAATTCA
51061	GCTTCCAATT	CTCTGACGAC	ATCTATATTT	TTAGTATCTT	TTTCTTCCAC	ATCTTGATTC
51121	GTATTAGGGT	ATGTCACACC	AGTTTCGTTG	CTTTGTTCTG	CGAGGATATT	TTCGAAACCT
51181	TCAAGAAAAG	GAATGTCAAT	AAAACCTTCC	ATTTCTACGA	TCTCCCCTTC	TTCCAATTCT
51241	TCCTTTTGT	TCTCTTCTTG	TTGGTTTCTT	GAGACGGTGG	TTTCAGTAAA	ATTTGGGTTA
51301	TCTGTAGATC	CAAAATCCACC	AGTTCCACGC	ACGCTTCTTG	CTTGATTTTT	GTTGTCCTTT
51361	TTAGAACTAG	AGTCAATAAT	CGTTCTCTCT	CCCGTGGTTT	CATTAATATA	CACAATCTGT

51421 TCTTCCTCGA CATCACAATA TCTTAAGAAA ATCAACTGGG CAATGCTGGT TCCCTTTCTG
51481 ATTGGCACAC TTTTTTCTGC ACTATGGTTG CGCAGAATCA CTTTCAATTC TCCCCTATAA
51541 TCCACATCAA TCGTTCCAGT AGGTACACTA GTGTTGTTCT TCCATGTCAT CCCAGAACGT
51601 GACACAATTT GTCCATAACA GCCGTCGGGA AACTTGTCTA TTCCATATCC AGTAGAGATC
51661 TTGGCCAGTC CCATAGGTTT GATATCCATT TCTTCAGAGG GAAATAGGTC GTAGGCGACA
51721 GAACCGGGCG TGGCACGTCT GGGCGGAAGT GCAGTTTCCT CCCCGGGAGG GGCGAATCTC
51781 ATAAACACGA CAGATGCAGA TGAGTCCATG GCTGGATACA GGGAGTACAC AGTGGAGACG
51841 GGATGTAATA AGTGTTCAAC GTCTGGAGGA CAAGTGAGTA CCTTCCTCGG TTCCTCCCAC
51901 CCTTTTATAA TCGTGAAACC CCCACACCCC CGCTAAGGCA GTAAAAAATA TTAGCCACC
51961 ATCACCCTT GTCTTGAAG GAGGAAACTA GAAGATAACT TTTATCATGG CAACATTTAC
52021 TGAACAGGAT CATAAAAATG CGTTTTTATA TGCTAATGAG AAGCTGAGGC AGGAAAGAAT
52081 ATACAGACTT AAAATGTCTG AGCCTTCAGT TTATGCTTTT ATTGACATAA AAGAAATAGA
52141 AAATGGTTGG GAAAAAGAAT TCGGGCTTTT AGTACAACCA GGACAGAAAT TAGCTCCTTT
52201 CAGGGATATT TCTTATGACT CAAGCAAAC TGAATTGTGAC GCATTTTCTT GCATACCTTC
52261 AGATATACTT CATCTGATA ATGAAAAAAG AGTAGGAGAG TGCAACTTTG CCGAACACAC
52321 CTCTGTCTCA TTTCTGTCA AGAACCTGA GGGAAAAACA TTGCGCCATT TCACGGCATG
52381 TGGTCCAGGG TGTTACCGGA GGTACAAGCA AAGAGACCCC CATACTGGTT TGCCAGTAGC
52441 CAGAGGCGTC CTGATGCAAG ATCACGTTGA CCATGAAACT GGAAATAAAA TGTGTGAATA
52501 TCTGAACCAG AGCTTAGTCA TGTGGGCTGC TGTCCCTTGG ATACGACCTG GAGACCTTAC
52561 TGAAGGTTAC AACACAACAC ACGTGCCTGG CTTTGCATTC AAGGAGGATG ACGAAAGGGA
52621 TTCAAAAAGA GTTAAATATG AAAATGTGGT CATTTCAAAG GCTTATTGTG ATTTCTTTAA
52681 ACAGATTAT GACGCAGACT CTGGCTCATG TTATCGATCT GGATGGATGA AATTGTGTTA
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52921 CAACGTATTC CCTTCTGAGC AGACATCTGC TCGCCAGAAA GCAGAGAATA TAATACGTTT
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53041 TAATAGGGAA GGTGTAGTAG GAACAGAGAA AAAATCCGAC CGCCTCATGC GAGTGGCAGA
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53161 ACGATTATTG TTAATAAATA TGATTAAAT GAGTAGAAAC AACCAGAAAT ATGCAAGACA
53221 TTTTTCAGT TCTCTCAAAT TAATTGGAT AACTTTGGCC ATAAAAAGAT CTGTTTTCTC
53281 TAAAGGCGCT TCAGCTAAAA GAAAGGAAAC GGCCATTAAAT AATGGCGAAC AGCATAGAAG
53341 AAGCAGATGG TCACCCGAGA CGGTGACAGA AGAAGATGCA CTTTTATTGT CAAGAGAAAA
53401 TATCACTGAA GACCCAAAAC ACCCTGCGCC CTTTGTGGAC ATTTTACACT CACCAGATAT
53461 CAATTCATCT ATCAAGAGCG GTTCTTCTTC CTCAATATGG AACGATATAC TTTCAAGAAT
53521 TTCTTCGACC AGAAAACCTGG AAGAAAAGGC GAGTGTTTTC GTTAAAAATC TTGTGGTGAA
53581 AGTAGTGAGA CAGTTCTTGG ACATTTTAGA AGGTAAACTG TTTTCGGACG GATACGAATG
53641 GGACGATAAT ATTCTCTGTA TGATAGGCGT GGACCAAATA TTGAGAGAAG TCATTAAGGC
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53821 GTTCTCCGTA TTCTTGGAGG AGTCTGTAT AGAATTTGTA GTTGCCGCAA GCCTTCGGCT
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54121 AATCGTCGCT ATCAACGTTT TCCTTCAAAC TGAAGAAAAC GGGGAAGAAA AGAAGGAAGA
54181 AGGAGCACGA AAATCAAAGA TTGATTTTCT TCAAAAATAC TTCCATTCTA CTCCTTTGAT
54241 GGGAAAGAAA AGTAAGTTTG TCTACATAA AGAAGCAGCT CAAGAATACT TGGGAGGAAG
54301 AACAATGAAC GCTTTTGGGC AGCGTATAAT AACAGCTGCT GATGATAGTG ACACCACCAC
54361 CACCACACAA GAGGGAAGGA GGGATGACGA AACAGTGAAT AAGAAAATGA GGAGTATTAT
54421 TCTAGAAACA GGTCAAACCT TTAAGGATTA CTCGTCTGCT GTTAACTATA ACGCCTCCCG
54481 TCTAGATTAC GTGGGAGAGG AATGGGTAA AGAAGTGGC CTAAAAGAAG AGACAAGGAG
54541 CAACACTACT AGTGATAACC TATTCAAGAA AACTGTTTCT CTGCTAGTA TGGCCGGCGC
54601 ATTTCTGGTT CTAGGAATAG GTGTATTGGT AGCGTCCCAT ATTACACTTT TACGTTTCAC
54661 CAATATTGGT CTAGCTTTTG CGTTCGAGG TCTCCTAGCA TTTATTGCAC TTATGAGTAT
54721 ATCATATATA AACATGAATG CTATGGGTGT AGTGAATTCG GACGCAATAT ACAGGCTCTAC
54781 TGCTCTAGTT GGAGATATCA AAACAGACCC CAGAAGAGTA GGAATGGTCC AGCGCCACGT
54841 AGGTGTCGGG GCTAAATACA ACATGATTAC AGATTTCTGC TCTCCAATGT TAGACGAGAT
54901 CGAGAGTGAC TAAAAAGTGA GGGTTATAAC CCCCCCCCCA ACAAAGGCTT TAAATTAGAC
54961 TCAAACCAA TTCATAATCA TTGTGAAGAC ATCGACGGTC GAGGAAGGTC CGTGCTCAAA
55021 AGGTCCCAA AATATTCTCT AATCAAAAA TACCATGGAT TCGTTGACTA ATACAGTAAC

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55081	ACTCCTCGTG	AATGACCGTC	TTGGAAATCA	TCGAACAAAC	AAACCAATCA	CCGAACAAGA
55141	TGTGGAAAAT	ACTCTTAACC	TTAACAGTCT	AGAAAGGGCA	AGTCTTTTGA	AGTTATATTC
55201	TGTTTTTCATC	AAAGAAATGC	AGTCCTATTC	TGGATGTATA	CCCAAGAACA	AGTACACGAA
55261	TGTGCAAGAA	ATATTCGAAG	ATGGACTAAT	TACTTTTCGAA	TGGAGAGATG	GAACAAAAGT
55321	ACACAGATCA	GTTTCACCAA	GTTCCCTTAT	ACCTCTTTCT	ACAAAAAAT	CGCCTCGGTC
55381	CTCACCTTCC	CCTCCTCCAT	CGATGCCTTC	TATTAAAGAA	GAAGAATTG	AAGAAGAATT
55441	TGAAGATGAT	GAAGAAATAT	ACGAAACAGA	TGAAAATGTG	GAAGATTTC	TAAATGGTGA
55501	TGGAGAAGAT	TCAGAAGAGG	AAGAAGAAGA	AGATATAATT	GTTGATGACG	AAGAAGAAGA
55561	GAATGAAGAG	GGAGAAAACA	AGTACGTTCT	CGCATTCTCT	AATCATCTGA	GGCGCCAGAC
55621	TGCCGCCGCT	GCCGCCGCCG	CCGCAGCTGC	TGCTGCTGCT	GACATTGAGA	AGAAGGACAA
55681	AAACCACGCA	GTTAGTGCGC	ATGACTACAC	ACTGTCCGCC	CTCCAGCAAC	AGCAACAAAA
55741	ACTGCTCCAG	CAACAGCAAC	AGCAACAACA	CCAGCAGCGC	TCCTCATCTG	AGAAGGTCAC
55801	CTCCACACCC	AACAAATTCA	ACAAGTTTTT	ACTGCCGAGT	AATGGCTTCT	CAGAACAGAC
55861	CGAGCTCTTT	GTTTGTTCG	ATGTGGATAA	AATTGCGCAA	TATAATGGAC	TCGTGGAGCT
55921	AGACATCTTA	CCCATTGTTG	CTGAATACAT	TATCAACGGC	CTTGGTCTGA	AATGCAGTAT
55981	GGAAACTCCC	CCAGTGAAC	CGTGCAGGAG	AAAGGAAGTG	AAAGATGTGT	GGTGTACGCC
56041	TAAAACTAGC	TTTGAAAATG	ATGCTGTGGA	AGATAAACAT	CTCGCATTCG	CAGAATCGCC
56101	TATACTTCAA	AGGCCTAGAG	ATTTCCCTAT	CCCTAAAAAA	ATCACC GCCT	ATTTTTGT TT
56161	AGACGATTCT	GTAGACATTA	AAAACCCCTG	GGGTTCGTGT	CCGCTTTTGA	AAAGTGGATC
56221	AAACTTTTGA	GTGTCCGAAT	ATTGCGGTCA	TTTTAATGAA	TTCTCAGGAG	TAAAAAATGA
56281	CGATGACACG	TCTTCAAACA	CTTGCTTTAT	ATACTCTCAA	AAAAACCCCA	ACATTGAAAT
56341	TGTATCAAAA	TTAAATATTG	AATTTGAGGT	AATGATGGAG	GGAATTATAA	CCCATAGAAA
56401	AGATTTGTTT	GAGACGGGCA	TTTTGAGCGA	TTCTTCATTA	GCTACGGCTA	TGGCATT TTTG
56461	CCACCCAAAA	GCTAGAGTTC	GAAATGTTGC	ATTGTTTTAT	TTTTCTGTAT	ATTTACCATT
56521	CTCTAAAAAT	ACTCGCAAAG	AAACTATAAA	ATGTTTCAGAG	ACGGATAAGG	TACATATTGG
56581	TTCAGACGCG	ATCTTTTCTC	CCCCAAGTGA	TAATCCTAAT	ATAAGTGCTC	ACCAGAACAA
56641	TAACAACAAT	AATAACAATA	ATACCAGTGT	GAATATCGAG	GACAGACCTA	TCCGAAATAA
56701	TAATATAAGC	AGAAAAATGA	CCATCACAAA	CTACCAATGT	ATGGCATGCA	AGGAAAGATG
56761	CACAAACAAT	TGCACTAACG	GTAACATATC	CGATCGTGGT	AACCAGCACT	TGTCACATAG
56821	TGTAAAAGGG	GAAGATTTCT	TTAAGATTTT	AAATAATAGT	AAAGTAGATT	CATTGAAAAA
56881	ATTGAGCAGA	GTA CTGATTC	CCGCTCCTCC	CTCTGGAAAT	TATACATCTA	AGTTTTGTGA
56941	TAGAAGCTCT	ATGTGCCATA	GCTTCTTTTG	TAGAGGGATC	GAACCAGTGT	CTACTTCTTT
57001	CTCATCGGAC	AGTTTTGAAA	AGACTAACT	TGTTTTGTAT	GGTAAAGTCT	TTGACGTTAT
57061	CAATAGTTAT	TCTGCCATAA	AAACTTCCCA	TAATAATAGA	ATCAGGGTCT	TTTTTAAC TC
57121	TGAGGAAAAA	GATAATAAGA	CTATCCCCTC	TAGAGCCGAA	AGTGCAAAAA	ATGCATTCAA
57181	GGATATACTT	GTTCACGAAT	GTAATAAAGA	ACGAGCTGTT	TCATATTTTG	AGCAAAACAA
57241	ATTATCCTCT	AAAGATGGGC	ATCTATCTAA	CAAGTGGTGG	ATCGAACTTA	ATGACTTGAA
57301	CATTATGTTT	GAGAAACACG	TGGAAGATTT	TTACAAGAAA	TGTTCTAAAG	TAAATGATGC
57361	AGAATCTTTA	AAGGATATTT	TTAATGATTT	TGAAAAAACT	TGTGATAAAT	ACAAAACTGC
57421	CAAGAGGGCA	ATTATTGGAG	CACAAGACCC	TTCTACTTCT	ACTCCCTCTA	AAAAGGAGAA
57481	TGGTATCACT	AGGATTATTA	GTACATTATC	CGAATTTTCAT	TCAAAAAGATG	AAGCTACAGT
57541	AAGTGCCCTT	CTCGACAAAA	CAATGCTCTT	GGGATCGAGG	ACAATAATGT	CTGGTGT TAG
57601	ATGTGTTATA	CGTAACAATA	GTGTGTTTTT	GGGCTTTGAA	AATAAGAACA	CTAATAATAA
57661	TTGGGAACCT	GAGATTAGAC	ACTATGTCAT	CTCTATGGGA	GGTGCTGCAG	TGACAAAGAT
57721	TTCCGATGAA	GATTTGGAAC	AATTCACGCC	TGTAAGAGGT	GCTGTCTCTG	TCACTACAGC
57781	ACCTAATGAT	AAGCTACCTG	TAGGGGCACA	TCAGACATGG	AAGGATGAAC	AAACACTAAA
57841	AACAAACACT	AAACGTAATA	GTCTATATGA	CTCTTACAAT	TCAAAAAGGA	ATAATAGGGA
57901	TAATAATAAA	ATAAAAAATC	GTTCATTTAA	ACTATCAGAT	TTTAATTGGA	GAACACCCAA
57961	TATCTCTATT	CAAGAATTTA	ATGCAAATAA	AGATGATGTT	AACAAGAAGA	GGTACGCAGA
58021	AGTCGTGGCG	TCAGCTGCTC	CAAAGTCACC	TTCACCAACG	AGCAGCAGCA	GCAGCAACAG
58081	CAACAGCAGC	AGCCCTCCTC	TTTCACCGCT	CTCACCAACA	GTGAAGAATA	GTAATAATAA
58141	ACCATTTGAT	ATTCCCTCCC	ATAAAGAAT	GACCACTACT	GCTGTTTGAC	CAATTTATGG
58201	GTTATTTTAT	AATGTTGTGT	GATATTTTAT	ACAATAAAAA	TATATAAGAA	AACAACCAAA
58261	TGATTTTGTA	TATCCTTGTT	CTGTGTTGGG	CGGAAATTCC	TCCGCGCCCA	TTATGATGAA
58321	AAAATTGCTA	GAGGCCTTGA	ATCCTGGTCA	CGACAAGGTT	AACAACAAAA	AAAATTACCT
58381	GTATGTGCAA	GTCATATCCT	CCAGTCCCAC	GCATGAGAAC	CTGTTATTGC	ACCACGATTC
58441	GTGTAACAAA	GTCGTATCTG	CACATGTGCA	TAAATTCCTT	CACGCTAAAA	TGAACGACAA
58501	AATTGCCGGG	AGCAATGGGC	GTGAGAGCCG	GTTTCTGGAA	AACCCACCT	CCGTTCCACG
58561	CACTACCTCA	CTATTGCACC	ATTTTTTGGT	GTATAAAAAA	GCACGGAGAG	GTAGCTAAAA
58621	CATCCACTCG	CAGAGACATC	ACCGTCAAGA	TGACGTCTCC	TACTAGTGCT	CTCCGCGTTG
58681	CTACTACTGC	CCTGCTGTTT	GCTGTGGTGG	TTACGGCTAC	TGTGATT TCT	GAAGCTGGGG



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58861	CCCGTGATGG	AGCCAAAGTC	TTTGGCGAAA	TCGCAAATGG	ACTGATTGGG	CGTAAGAGGC
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58981	ACCCTGAGCA	TCCCATTGGA	GGGCGTCTAC	CACGTGAAGC	AGCTCCTCCA	CTTAAAGGTG
59041	CACTTGGAAC	TAAAAGGCGT	GAAGCAGCTC	CTCCACTTAA	AGGTGCGCTT	GGACGTAAGA
59101	GGCGCGAAGC	AGAATCCTTG	GAGGAAGAAC	TTGTGTCTGC	TGAAGAAGAA	CGTGAAAAGC
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59221	CACTTAAAGG	TGCACTTGGA	CGTAAGAGGC	GCGAAGCAGC	TCCCCCACTT	AAAGGTGCGC
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59461	TTAAAGGTGC	ACTTGGACGT	AAAAGGCGTG	AAGCAGCTCC	TCCACTTAAA	GGTGCCTTGG
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59581	AAGCAGAATC	CTTGGAGGAA	GAACCTGTGT	CTGTTGAAGA	AGAACGTGAA	AAGCGCGAAG
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59701	AAGGTGCTCT	TGGACGTAAG	AGGCGCGAAG	CAGCTCCCCC	ACTTAAAGGT	GCTCTTGGAC
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60241	ACATGTTTGT	GACCTCTTGA	ATAAATTTTG	TTAGCATCAA	TATTTATTTT	ATTTTTATCC
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60361	CAGAGTTGCT	CCTGGTGTG	CTCCTCTTCT	TGATTCACAT	TGTCCTCTTC	AACATACTCC
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60841	AGGGGCAAAA	GGCCCCCAT	CTTCCAGTGC	ACTATTCCCA	TTAGAAGGAA	GTGGACTAGC
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61501	AGTTTCAATT	AAAGCTGATA	TTTGGCCCCAT	GATTTTAAAG	CTCGCACACA	GTGCCATTTT
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62221	TTTCTTCCAC	GGTCTGCTCT	CCAAGGCCCT	TCTCCCAGAT	GAAAAACATC	AACCCGTTAT
62281	AAGGCGTCTT	TGTGCGGATG	ATTCTAGAAA	TAAGGGAGAG	GATGGCTGCT	GCTCGTTCTG
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72481 AGTGACCAGT TTCGACAACA ATTATTGCAA CAACAGCAAC AATTTTCAGCA ATTACTACAA
72541 CAACAAGGAA GAAGAAGAGG GGGTGACGAT GGTGATGAAG AAAGAGAGGA AAGAGAAGAA
72601 GGGGCTGAAA AGGATGATTG TGTGCGTAAG GTTGCGAAT CAGTAGCGAC AAAATATACT
72661 GCTGACTTGA CTACCTTATT CCAACGAGAA GAAAATAACT TCCAATCTAA AATAGCATCA
72721 GCAAAATTGG GAACCCTTGT CTTTGCCACC CCTCCTTCAC CTATCATGAA CTTGACAAAA
72781 TTGAGAGAGG AATATTCCAC ATTCACAACC CAGTGTTTTT CAAAATAAC AGCTGAAAAT
72841 AATAGTATTA TGCGTATTTT CCCCAGAGG ATTGTAGAAG TATGCAAGAG TAAGAATCTC
72901 AATTTAATGG GAAAATACTT GTACATTATA ACTACCGCAC AAACAGAAAT GGAAGATCGA
72961 GTGAAGAATA TATTGTCTGG TATTTTCAAT CAAATTGAAG AGTTTTCAAA CAATGTAAAA
73021 CAACAACAAC AACAACAAC TGCTTCAGCT TCTTCTACTA ATCCTCCTCC TCCTTCTACT
73081 CCTTCTACTA CTCCTCCTGT TACAAGCATG CAAGTTGTG AGTTGGATG TCAACGTACC
73141 CTAGAAAAGG CTGCCATAGT AGAGGCAATT ACTCTGGCCA ATGCTGTACT TCAAACTACA
73201 AAATCCGCTT CAGCTCCTTC CACGGCGGCT GAGCGAGAAA TTGCTCTAAA GCTAGAGAAT
73261 GGGAAAACAT CTATCCGTAT GGAAAAAGTG GATCTAAGTT CAGGAGCTAC TGGTGTTCCT
73321 GACCAACAAA AATGGATCGA CGAAAGTACT TCCAACAAG AATTGGAAGA TTTCAATTGCA

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73381	GAAGAAAAC	TTGTAGAAAC	TGCACATAAT	GAAATGGATA	TTGGATTAAT	TTTGGATGCC
73441	AAGAAGAACG	ATCCGACCCG	TGATGCCAAT	CTTAGGCTCG	TGAAACCTCA	TGGAATAAAT
73501	GTGCAGTCTT	TCCCATATTA	CGTACTCCGC	ACATGGCTAG	GAGAAACAGA	TATATTGGAT
73561	GAAGATACTG	TACATCCTGA	ATATTTCCGC	CAATACATTG	ATCGCAATTG	GAAGGTGGAA
73621	GAACATGAGC	GTGAAGATAC	ATTAAAGGCA	CTGGGTGTTT	CTTTATCAGA	TACGTTGGCA
73681	CACATCAAGG	ACTACTATTC	TCCCAGTGTC	AAAAATGATG	CATCAAAATC	AGTACCATTT
73741	GCGTTGAACA	CTCTATTGTA	CAACATATTT	GCTATCGACG	GAGGAATGAT	TTCTAGCCTT
73801	TCAAGAACAG	CCTTTATTTA	CCGTAAATTT	TTAAGGCAAT	CTATGACAGA	TAAAGAGGTT
73861	GCTCAAGGAC	CTGTTCCGTC	TCAACTGTGT	GAAGCGACAA	TAGCGTCTCT	TTTCACGGCA
73921	TGTAGTAACC	TTCTTCGATC	GTCTCCCTTA	GCCGATAAAG	TAGAACCACG	CCTTCAAGAA
73981	AAATTAGCGG	CCGCTGCTGC	TGTAGACACG	TCAACCGGAG	ACATGTTTTG	TATACGAGTT
74041	TGTCATCTCA	TGTACAATTT	TATAGTGGCT	TATGTGAACC	TATGCAATAA	TCGTATAAAC
74101	TATACGTTAA	ATGTATTGAG	AGCGTCGGGT	CTGGCAAACA	AAAAAGTCGT	GGCCGGTAAA
74161	ACAATAAAG	GGCATAACATC	TTCTTCCCAC	CGTTTTGGAT	CTTATGATGT	CACATATGAT
74221	TTTTTCAGTAT	TGTACAAGAT	TCTTCAACTA	CAAAAACAGA	ATATCTCTTT	ACTTTTAGAG
74281	AAGGGTTTTCA	ATGCATGGGA	ATCGTGTGTT	GCCGCCATGG	CAGCCTTCAC	TGCCGACCCT
74341	TCTCTCTCCA	TCTCAGATGC	CGACCAATCC	ATACTCTTCC	CACTAGAAGG	GGGAGAGATT
74401	GTTATTGAAA	AACATGAAAA	CGATGCAGAA	AAAAATGTCT	ATATGGTTCA	AGAATTGTGG
74461	AAGGAAACTG	CACTCACACT	CATGGCAAAG	GACTAAATT	CATACTACAA	CTGGTTCTAT
74521	TACAGTAAGG	ATACCGATAT	GGAAAAGTTG	GCAGAGAGTG	GCAGGATGAT	TATCGGTATA
74581	GTTAAGGCTG	TTCTCAGATT	AACAAATAAA	GCCGAGAGTT	TAGTAGACAC	TAATGCTCTT
74641	TCTGATATTT	TCAAGCTACC	TGTGATTCCA	ATTGATGATA	CCAAAACCTCT	GGCAATAAAT
74701	ATTGTGGTGT	TCACTTTGAA	TAATGTAATT	AAACCATGGA	TGGTTTTCGTT	CAAGCAAATG
74761	TTTAGACAGA	AAGACGGGGG	AGTTTCTTCA	GCCTATTTCT	CGTTTCAAAA	TATCCAACAA
74821	CAAAAACATC	AACAAACTGC	TTCCATTTTA	GATGCATGGG	CTTGCGCGCC	CGGTAAGTTA
74881	ACAAAGGCAG	CACACGTGTT	TATTTTCAGGA	TATGAAAATC	ATATCAAATT	AAAAAAAGAT
74941	GATCTTTTAT	GGGGTGCTTC	AATGAAATTC	CCTGCCGACG	GACGAGGCAC	TGTGGTCGAA
75001	GGATGGGCCC	AACAATACAA	TAACGAAAGC	GTATTGGAAG	ATTTTACCGA	CTTTTCAATT
75061	GAAGTAAACC	CACCTGCCTC	TGGACTCTTA	ATACCGCCAG	ATCCTTTACT	TCTTTCATG
75121	TTCGGTAAAG	GAAATGGTGG	AAGCAGCAGC	AGCAGCAGCA	AGGATAATAC	AATATTGGA
75181	AAGGGAGGAT	TAATTTTAAA	CCGCCAAGTT	GTTGGACAAG	AACAAGCACC	ACCAATAAAC
75241	ACGTCGTCGG	ATACTAAAAA	AATAAGACGT	GATGCAAATA	TTGAACCAAT	AATAGGGACG
75301	CCTTATAGTG	TAATTAAGGC	AAGTAAAGGA	GTATCAATTT	CAGTACTGGA	TGATTTCAAT
75361	GAGGATAGTC	CAGAAGATTT	CGCCCTTAAA	ACTTCCATCA	TCAATGATGC	CATACGAGAA
75421	ATAGGGCAAC	GCATGACTTA	TACAAGACCT	ATATTTGATC	ATCAAACACA	GAAAAATATA
75481	CACTACAGTT	CACCTAAAAT	TATTTCTCGA	GGATCAGATT	TAAAGAATGG	ACAACGTTCA
75541	GGACAATCTT	GGGCTCCTTC	TTTATCATCC	TTGACTCTGG	CCTCCGATTG	GAATCTACCT
75601	TCTCTGGAGC	TTTTATATAG	AGAACTTGCC	ACAAACAAG	TAGAGAAGGA	AGAAGAAGAA
75661	AAGAGCGAAA	GGGAAGAAGA	TAAAGGACAA	AAACTTAATG	AAAAATTATC	ATTTGTCTGT
75721	AATAAAGCTA	TCGGAACAT	CCAACAACAA	CATCAATATT	CTGAAAGGGG	AGGAGGAATG
75781	AAGAGGTATC	AGCAACACTC	TGCTGATCAA	GCTAGTAATG	GTGGCATAGA	TGATATAGAA
75841	CTTATGAATA	GTAAGATGC	TACTTCCATG	AGAAAGGCAA	AACTGGCATT	AGCCGTTACT
75901	AATAAAATTG	CAGCAGCAGC	AGCAAGGGAT	GGGGAAAATT	CATCAGCTAA	ACCGTCAAAC
75961	TTTGGCAATA	GATTGGATGA	AGCAATAAAC	CCTGGAGCAC	TTTTATTACG	TAGAGGAGGA
76021	GGAGTAAGAG	GAGGACAAAC	ACCCAGAGT	TCAATGCTAA	CAATGTTCCG	TCCTGGACAA
76081	ACTGGTGGCA	ATAGTAGTTG	GTGGACTACT	AATACACCCC	TTATTCAACG	CACAACCTAGT
76141	GTTGGGAATA	ATTTAGTTGT	GCTTGTACCC	AACCTATTGG	ATTCACACCC	TCCTACATTT
76201	AATTAGGAAT	AAGGAATTAT	ACACATTTAT	TTGTATGTTT	TACATGTATT	TTATTCAACA
76261	ATAAAGGTTA	TGATCATACA	TAATCAACTG	GTTGTTTTAT	TACATAGTTT	CCATTACTGA
76321	CCCTTCCAAA	AATGAATTTT	GTACCTCCGA	ATACAATTTT	TTCCCTCGGT	TTACAAAGGA
76381	AATTGCACGG	AGCGAATCTG	CTCACCCATT	CACCAACAAC	ACCCTCATTA	ATCTTCCCAT
76441	GAGTGATGTG	AGGATTTCAGT	CTGTTGTCAG	CGAGTTCAAC	ATTTCTCCCT	ATTGCATCTG
76501	AAATGTGTTT	CATTATTCGT	CTACGCAAAT	CGAGTGCATC	ATCTCCAACA	CATACTTTGG
76561	ATACGAGAAT	GTTGTTGTTT	ATCCCAAACA	ACTCAAATTT	ATCCCCAGTG	TCGATTTTGA
76621	TAGCTGGTGC	AAAACAACCTC	CCAAAATCTG	TTTTTATCAG	AGTATTGTAT	TCTTCCATAT
76681	TTCGCAATAA	GAAAACAGAA	ATGGTCACAT	GTGGAGGCAA	CTGAGAAAAT	GATTTGAGAA
76741	CGTGTCTTCT	AGATAATAAT	TTTCCCGTTT	CTGAATAGAA	AGGAAGTAAC	TCTTCGCTGT
76801	AGAGAGCAAA	GAACATTTTC	ATTTCTTCAC	CTTTAAAATC	AACTTGATTT	ATAGTGAAGA
76861	TTCTATTGTT	GTGTTTGATT	GAAAATTGTT	TCACCACTTC	AAACATGCCA	TTGATTTGTT
76921	TGTACATTTG	CTTGACTGCG	CATCTTCTTT	GCACCTGTGG	TTGAGTAGAT	GAAGGGGAGA
76981	TTTGGTGGCC	ATTATCTGGG	TGGTATCCAT	TCAATATGTT	GTAGCCGGCA	CAAGGGGATAA

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77041	CTGGGTCCAC	AAACTTGAAA	GCCTCTCTAT	TAAACCCTCT	CCCTAGAGGA	ATAAGTCCAC
77101	AACGAATTC	GTCTGCGTCT	TCTGCCTTGT	CCATTAACAT	CATATTTAGA	TGCACAACAT
77161	ATCTCAGAAT	CCCATTCAAG	GTGTGTTTTT	CTGGATAGAG	GCAAATAACA	TCATCCACAT
77221	ATTCCCCATC	TACATAAAGT	CCAGTAACAA	CAATCTTTAA	CGCTTTAGAT	AAAACAATAG
77281	TTTCTCTATG	AGAAAATATT	GCCTTGTTTA	CTTTGGTGGA	GAGTTGTTCTG	TCACTGGGAA
77341	TGGGCGTAGA	GGCCAAGAGT	AGAGCCTTGG	AGGAAAATTT	CTTGTCCATA	GGAAGTCTGT
77401	GCCGGATATT	GTCTACCATG	TTAGACATAG	AAGTATTATC	ACTAAAGTCA	AAGAAGACTA
77461	CTCCATTTTC	TGGAGAGGGT	TTGTTGAAGG	ATAGATGTTT	TTCCATGGTG	GTGGTGGTGG
77521	TTGTGATGGT	TTGAATGAGG	TGTGGTACAG	TCATTATATA	CACGTGGGCC	CTTTTTAAAA
77581	GGGGGAGGGA	GGGGGAGAGG	GTTGCCATCA	AGCAATATCT	TCGTCCAGAA	ACACCTGGTC
77641	CAGAAATGGC	CATAAGATAC	TTCTCTTATT	TCTGGAGCTA	TTACATTTCT	GGTGTAATCT
77701	GACATTGGCC	CGACCCAGAG	GTCCACCCTC	GGAACCTGAC	ATTCCGTCGA	GCTAGCGGTC
77761	CACCCCCTAA	ACTGGAGCGC	CCTAAAAAAT	TTTTGAAAAG	TTTTTGAGAT	GGAGGAAGAG
77821	TAAAAATTCTC	TAGTGAAAAC	AGAAGGGTAT	ACCCTCTCAT	TTCTGGGTCG	ACCAGTCTCC
77881	AGAAACGCCT	GTTCCAGAAA	CACACAAAAG	TTAATGTACG	TTTCTGGAGC	TATTACATTT
77941	CTGGTGTAAT	CTGACATTGG	CCCGACCCAG	CGGTCCACCC	TCGGAACCTG	ACATTCGGTC
78001	GAGCTAGCGG	TCCACCCCTT	AAACTGGAGT	GCCCTGAAAA	AATTTTTTGA	AAGTTTTTGA
78061	GATAGAGGAA	GAGTAAAATT	CTCTAGTGAA	AACAGAAGGT	TATACCCTCT	CATTTCTGGG
78121	TCGACCAGTC	TCCAGAAACG	CCTGTTCCAG	AAACACACAA	AAGTTAATGT	ACGTTTCTGG
78181	AACCAACAAT	TTCTGGTGTA	ATCTGACATT	GGCCCGACCC	AGAGGTCCAC	CCTCGGAACT
78241	TGACATTTCG	TCGAGCTAGC	GGTCCACCCC	CTAAACTCGA	GTGCCCTGAA	AAAATTTCTG
78301	AAAAGTTTCT	GAGATTGAAG	AGGAGTAAAA	AACTCACTAT	ATGAAAGGTG	TGTAGAACAC
78361	CACATCCTTT	CTAGGCACGG	CCATGTCCAG	AAACGCCTGT	TCCAGAAACA	CGCAAAAGTT
78421	AATGTACGTT	TCTGGAGCTA	TTACATTTCT	GGTGTAATCT	GACATTTGCC	CGACCCAGAG
78481	GTCCACCCTC	CGAACTTGAC	ATTCCGTCGA	GCTAGCGGTC	CACCCCTTAA	ACTCGAGCGA
78541	CCCTAAAAAA	TTTTTGAAAA	GTTTTTGAGA	TGGAGTAAGA	GTAAAATTCT	CTAGTGAAAA
78601	CAGAAGGTTA	TACCCACCTT	TTTCTGGATG	CGACTAGATC	CAGAAACGTA	TGTTCCAGAA
78661	ATACCCATAA	GTCCTTTTCT	CTATTTCTGG	AACCAACCAT	TTCTGGTGTA	ATCTGACATT
78721	GGCCCGACCC	AGAGGTCCAC	CCTCGGAACT	TGACATTCCG	TCGAGCTAGC	GGTCCACCCC
78781	CTAAACTCGA	GCGACCCTAA	AAAATTTTTT	AAAAGTTTTT	GAGATGGAGG	AAGAGTAAAA
78841	TTTCTTGCTT	GAAAGGTGTC	CAGAAGTGTA	AACACACACA	CGCATTTCTG	CACCTTGTC
78901	CCATCATTA	TAAAAAATGT	CCCCCTCCGC	TCCCCCTCA	AAATCGGGTA	TAAATAGAGC
78961	TCACCAGCAC	ACCACAGACA	TCATTCTCAA	GACATTTCAA	GTACTGAGAA	CATCCTCTCC
79021	TCTTGTTGATA	TTATTCAAGA	AAACCTACTG	AAATCGTCCC	TAAAATGGAT	TTTGAAGGAA
79081	CTACCAGTTC	TACCCCTTCA	AAAATGTCCC	AGTTGTATTC	ATCAGTGAAG	AAAGTTGCAG
79141	AGCATTCCTT	TGCCAATCTT	CATGACAAGG	CTACTCTTGC	ATCAAAGGTT	ATTAAGGACC
79201	TGGAAGGGGA	GAGGAAGAAA	ATGTCCTACC	CAAAGTCCTC	TTCTGATGGA	CAAAAACCTG
79261	ACAAGGCTAT	GTTGGACGAT	ATTATCAACG	AGTATCAGGC	CGTTAAGAGC	ACTGCAGATA
79321	ATTCCATTGA	ATCGACCATC	AAGGAAATTG	AAAATGTACT	TGAAAAGTGTG	CGCAGAACCA
79381	AGATTGAAAG	TGAAGCCAAG	AACAGTGTA	CTTCCAGCCC	AGAAAAAGTG	TTTTCTGTCTG
79441	AGGATTTAGA	AATCTACTCC	AAGGGGCGAG	TGTGCAAAGG	TCTCAAGTTA	AACGCCAACT
79501	GTTCAAGAAT	TGGAGGCAAG	TATGCAGTGT	CAATGAGTAT	CAAAAAACAC	AACGTCTCCT
79561	CATTTGAGAA	CAACAACAAC	CAAGTTTTCT	CTGAAGAACC	CAGGGATTGT	TTTATGCTTG
79621	AAACAACCTA	TCCTCTTGTT	GGGTTGAAA	CTTCTACAGA	AGATGGAAAT	ACATATGCAG
79681	TTTTCTTGAC	TGGTGTTGGG	CTAGAAAGAT	CTCTACCTAA	ATATGTACCA	GTTTTCTGACA
79741	TGAATGCAGG	TATTCAAACC	CTAAACATGA	CTGGTTTGAG	GATGGCCAA	CTTCTGTTC
79801	TGTGCATGTT	TGGACGTACA	GAATATGACA	ACTTGGAAGA	TTTTTACATC	ACTTCAATTG
79861	AGACGCAGTC	TTTTGACGAA	GAGGAAAATG	ATGCCAGAAT	GAGGTGTAC	ACCGAAGATT
79921	TGGAGAGGAA	GAAGCGCATG	AATGACGCAC	CAGCGATTAC	ACCTCATGTG	GCCGTGTACG
79981	ACTACAGTGG	AGACGGGAAA	GAACAATTGC	TCTATATGAT	AACCGAGTAT	GAAAACACGG
80041	CTAGTTGGTG	CAACGCAAA	GGTGTGGTCA	CATCTGACAG	TGGATTTTCT	AACGAATTGTG
80101	CAATTAGTGA	TATGAATGAC	TTGTGCTGTT	TTGCTGACTG	CATCGATGTT	ACTGTTAATA
80161	ATGAAGAACA	TGAAGAACGT	TCTATGAATA	TTGTGGTCGA	ATCTGACAGG	CGTCTTTTGT
80221	ATGCTAGTCC	TTCCCCCATC	AAGACGGAAG	AAGATGGAGA	AAATTCATCG	TCATCGTCTT
80281	CCTCTCCAAC	AGTTCTCTCT	CCTACACCAT	ACGAAGGTAA	CGCAGTTGTG	GAGGGGGAGG
80341	AAGAAGAGGA	AGAAATTGAT	GAAGACGAAA	GTAAGCAAGTA	TGAAGGTTCA	GAAGATGCTC
80401	TTGTTATGAA	GAAATTAGCC	AAGCTTTCTA	CTATGAAACA	AATGAGAAGG	GTTAAGAATG
80461	AACCTGCACT	CAAAATTACT	TCTGGGGGTA	ACAATAGTAG	CAGTAGTATC	AATAACGAAG
80521	ATGATGCTGA	TGATGACGAT	GCCGTTGACG	CTACTGCATT	ATGCCCCCAA	ACTGAAGCTA
80581	CAGTGAAAAA	TTCTTTCATG	GCCCAAACG	ACAGAGAAC	TGAAAATATT	TTGTATGAAA
80641	CTATGCAAA	TTCTCTTGCT	AAAATTTGTA	ATAATCCATC	ATCTATGAGC	AGTTACCGTG

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80701	TATTCACCAA	CAAACCTCCAA	GAGTGTTTGA	ATACCATGGA	CGATAGTATC	CGTCGCCGTC
80761	CAACCATTTG	GACTGAAGAA	AGTCAACAAT	TTGCTAAGGG	TTTGTGTGTT	GATGAGGTTG
80821	TCACATCAAT	TGTGGCACAT	CAGATGGCTC	AAGATATTTG	CAAGTCTGAA	ATATTTGGAG
80881	GAATGTTTAA	CGCCAACCTC	ACCAACATTA	AGGGTAAATA	TGAAGGACAA	AAGAAGAGTC
80941	TGTATGGAAA	CAAGCACATT	TCTTCCTCGT	GCTTCAAAAC	CAACACGGAA	TCTAATGTGA
81001	ATAATGCACT	ATTTGCGTGG	GTGAAATCGA	AACCTCCATT	TGGCACAGTC	ATACCTAACG
81061	TATTCTCCTT	CAAAATGGCA	TCAGAAAAGC	CCTCAAAAAT	GAAGCGCAAG	CGTACCTCTA
81121	GTGCTTCATC	ATCTAACGAT	GAACACCAAG	AACCATCAAC	AAAAATGATG	AAAAATGATG
81181	AAGGGGAAAA	GGTTGCACAA	GAATCATCAT	CTCCTTCTTC	ATCGTCTACA	CCAGAACATC
81241	AACAACAAGC	TGGTCATGAC	AAGGAAACTA	TCAATTTAAT	TCCCCTCAGT	TTCATAAAAA
81301	TGCCACGCAG	TAATGTCAAT	GGCTCGGCTT	CATATTTGTC	TGAAATATTC	GGTCAACGTC
81361	TTTGTGGACT	GTCTGATGCT	TCCAGCACAT	TTAAGAGAAT	GTGCAAGACT	TTTGAAGATC
81421	TTGAAAATGA	AATCATGAGG	AGCTCATTCA	CTAGACTGAC	TAGATATGAG	AGGGAGGTAA
81481	CTCGCTTGTA	TGAGAAATGC	AGGTCTCAAG	CTGTAGATAT	TGAGGAAAAT	GAAATGGATG
81541	TTTTGTCTCA	CCAAGGGGAA	TTGTTTGCCG	AGTTCTTGGA	GGACCCGATC	GCTTACTTTG
81601	AAGAAGTACT	GGAGAATATT	AAGAGTTGGA	GCCTAGAAAA	CGTTAACACC	CCTAAGCGCA
81661	AAAACAAGTA	TGCAAAGGTA	CTGGTGAGCG	TTAATGCTAT	TCGTAGGACA	TATGAAGAAT
81721	ACCATGCGTT	TAGCAAGTTT	GTACCAATGT	TCTTGTTCAA	TCTGATTAAG	AGAGAATTGG
81781	AAGGAGACAA	CTATACCCAT	GACGTTCACT	TTTCTTCCAC	TTGCCTGTGG	TACCTGACTG
81841	TAATGACCAG	GAACAGGATT	TGCGATGTGC	TCCAGTACAT	CAACAACAAC	AATATGATA
81901	ACGAAGAAAC	CGATATTGTG	GAGGAAGAGG	AGGAAGGAGA	AGGAGAGGAG	GATAAAATGG
81961	AAGAAAGTAT	GGACGTAGAA	CAACAGAAGC	AAGTTCGCAA	GGGAGGGAGA	AAGAAGGGTC
82021	AAAAATTCAA	CAGTATTGGG	GATCAAGTCA	TTAGAAAATT	TGTGAAAAGT	TTGTGTGAAA
82081	ATTTCGATGGT	AGTTTCTATT	GCAATTAATA	GTTTGATCTC	TGGAATAAGC	TGGATGAACA
82141	AGAAAATCCC	TCCCGGTTTC	TTGAAGGATT	CTAGCACAAAT	CAATACCCCT	GATGAGGTCT
82201	CAAGGTTTGT	GTTTAGCGAT	GTCAAAATCA	ATAGGAAAAT	CAATGGAACA	GATGATAAAT
82261	ATGAAACTGT	TTTTGGAGTC	AGTACGCGTG	TGGATTACAC	TATTGTAGGC	CCCTTTAGTA
82321	TACCTGTGTA	TTTTTCAAGC	GCAGGACTAG	ATAAGGCCCT	ATGTGGCAAA	TTGTACGTTA
82381	ACACCATAGA	CGGAAAGGGC	ATTTTGCACAA	TTTACCCCAA	ATATGATCA	TTAACAATG
82441	AGGATGTTGA	TTCTACTACA	ACAGACAAGC	TAGAGAAGGA	TATTTTGCAT	TTGTCTAGC
82501	ATGACACCTT	TTTCAATATT	AATAAGAATA	AGGTTCTTCC	ATTCTATAAT	ATTTCTCCTA
82561	GCTCTTCTCT	CACTGAAAAG	AAAAAGACAA	AATTCAATAG	GAAGAAGATC	TCATCTGGTA
82621	TGAGCAATAA	TAATGGCATG	TGTGTACAAA	CTCCTTCTAG	TTCAAATTCA	GTCTCTTCCG
82681	TCTCGTCTAT	TGTAGCTCCT	TCATCTTCTG	TTCTGGCTCT	ATCTTGCTCC	CTTTCTTCTA
82741	CAAAGAAAAA	GAGCATCTGG	AACGAGAACA	TGTTTTTGAC	ATCTAGGAAC	ATGTGGAGGT
82801	GTGGATTTGT	TGTACCACCC	AACTTTTGCA	GTTTTATTGT	TAACCATAGA	CACGCTGTAA
82861	AACTTGTAGC	TGAAACTGCA	CCTAAAACAA	AGTTGTGTAG	GAATATTATT	GATAGGAATA
82921	GGAAGATTAG	ATTTAACGGT	CTAAAGAAGG	TATGCAAGAG	TGTTAGCGCC	TTTACCGGCC
82981	AGTCTACATA	TTTGCTCAAT	AAGAATATGA	CTGCAACTTC	ACCTAGTGAT	TTGAACCTAT
83041	GTATTTATAC	TTCATCTTTA	AATGACCCAT	TGTATACTTG	TAAATTGACC	CATGAAGAGT
83101	ACCAGGACGG	AAATGCTTTG	GATGACTATG	GTGCAGTTTT	TGTAAACTAT	ACATTTAAGA
83161	GTATCAAATC	CTGCTCGTCC	AAAGATGAAA	CCGCTGACGA	CAATGCTGCT	GCTGCTGATG
83221	ATGATGGTTC	TACTACTTCT	ACCTCTTCTT	CAACTGATAC	TGATGCTGCT	GCAATCCAAG
83281	ACTTTATGCA	TGTAATGATT	AAGAAAATTG	ATGCCATGAA	AGACATTAGA	GGAAAGTACA
83341	AGAAATCTTT	GGCAAAGAAA	ACAAAGAAGC	ATTAAATGTA	TACCTTTATT	TTTACCAATA
83401	AAAATTATAT	GTTTTACATG	TTGTGTTTTA	TTCAAATTCA	TATGGTTTAT	CCCCATTTAA
83461	ATCGTCTAAC	CCCATATCCC	AGTCAAACGC	TGCTGCTGCT	GCTGCTGGTT	CAATGTCTGA
83521	GCCATAGATG	GATTCATTGA	CATCTAAAAG	TTCATCTCTA	AAATTTCTCT	GTGTACGCGG
83581	TTGACGAATA	ATTGGTGCAA	TAAATGCCTC	CTCTTCTTCT	TCTTCTTCTC	CTCTGACTCC
83641	CGTTTCCTTG	ACAGCTTGAC	GTTGCGCTTT	TATTATCTCT	TCAACGTTCC	TCCCTGGAGT
83701	AGCGGGAGGA	AGATCAAAAT	CAATACTGCC	AAGCTCAGAG	TCTATATCAG	TAAAGGACAT
83761	ATCAGTAGCG	TTTTCTTCTT	CTGCTCTTGC	TGTAGACGGA	GGAGGAAGAG	GAGTAGGCTT
83821	GGGTAGAACT	GGTGTAGGTG	GAGGTTGAGG	GGTAGTAGAA	CGAGAGTCAA	ATCTTACACG
83881	GGAAATAGGT	GGAGAAGGAG	CAGTATTAGG	TATAGGAGGA	GGAGGAGGGG	GACTAGAAAT
83941	GAGTTGAACC	GGAAAAGGCT	GCTGCTGCTG	CTGCTGGGGA	GGAGGAATAT	TACTGGGTGA
84001	TTGTTGTTGA	GGAGTAGGGG	GAGGAGGAAT	ATTATTGGGC	GGCTGTGGTG	GTTGCTGCTG
84061	CTGCTGCTGC	TGCTGCAGCT	GAGGCGGCGG	CTGTGATTGG	TTGCCATAAA	AGTACAGCGG
84121	GTAAGTTTGT	TGTAATTGTT	GAGGAGCATA	TGGGTTATAA	TACTGGTTAT	ATTGATAATA
84181	AGGATTTAAG	TATCCTTGGT	AAGTAGGTTG	TTGAACCTGG	AAAGGTGCCT	GTGGTGGAGG
84241	AAGAGGAAAG	GGAGGAGGTT	GGAAAGGGGG	AAATTGTTGT	TGTTGTTGCT	GACGTTGCTG
84301	TTGTTGTTGT	TTGGGCACAA	ACACTCCAGT	CGATAAATTA	AATGCTTGAC	TTGTTTCTCT

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84361 CACTGCACTC TTTATCATTT TTTCAACCGG TCTTGCTGAA GCTCTTGCTA AAACACCAGC
84421 TGCACATTTT TCCAGCATGG AGATAGAATG CTCTGATTTA CTCCTCAAC
84481 CAAAAGATCC ATAGTCGATG ACATTTTTAC CCACACGTTA TTATTTATAG CTCTAAAATA
84541 ACGAGGTATT GATAGGCCAC GTACAGTGGC GTTAGAGTTA TCAGAAGCTA CAGATACAAA
84601 ATTCTTATCA AAGTTCTTGT TCGGTAATAT ACGTGTACCA AACAGGTAT TACACACAGT
84661 AGCAAGTTGT TCAAAGTATA CTCGTTCTTT CACAGTTCGC TGTATACGAT CCTCCACGAT
84721 ACTGCTCATT AAATTGTTTT TCTCTGTTGC ATTTCCATCG TTAAGAGATT TCAATATTTT
84781 TGAACTTAAT TCTTGCCACT GAATCTCTCC TGACCGTATA TCTTTCCTAT GGGAAATTGC
84841 CCAACAATA TTAGCCAGAA GAGCTTTCAC CAATTCAGCA CCCACATTTG TGACAACAAA
84901 AGTGTTTGT CTTTTCTCTC CGAACTTTTT CTTCCTTGT TCAGATGACA ATAAAGATGA
84961 TGAAGTAGGA AAAGCCTTGG TTTTATGGC CTTTAAAGG TTAGCTAAAA GAGACCTTAT
85021 TCTGTACTGT ATAGCCTTCT CCTTGACCAC TGCCTCGTCT GCCAAGTATG ACACGTAATC
85081 GTATTGTGGC GCATTTTCAC TCCTTACACC TAAAATAGAG CCCGAAGTTA TAGCACCTCT
85141 CAATGGTCGA GACACGGTCA TCATTTTTC AGCAGGCACT GCTAATGCCT TTGATTCTGT
85201 GTCACTTCTC TTTCTTTTTT TAGAGGGAGG AAATATGTGC TTTTTCATTT GTTTTGCCCG
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99721	TACAAGATTG	TGTACGACAA	GAATAACAAG	GAATTGTTCC	GTGTACAGAG	TGATATGTCT
99781	TGGAAATAAA	ATACATAATT	AAAGAATTTA	TATTGTTTTA	TTTTGTCAAT	TATTTGATAC
99841	ATTTGTTGTA	TGTTTTAAAG	ACAATACAGA	TAATTTTCCT	CCATGACGAA	ACACTGGTGA
99901	TATGTCTGGA	GCTCTGATGA	ATGTCTTGCC	AGATGCCATC	CTAGTTTTTC	TCCTGGGGAA
99961	GGTGACGTCC	GTTTGAGAGA	GGGTTGCTG	GGTTTCAACT	GCAGCCAAGA	AAATATCCCT
100021	TTGTCCAGTG	ACGGTAAATT	GTGTACCGTT	ATTTAGTGTG	ATGACATTAT	CCCTCTCTGA
100081	TTGTTTCAAA	GCTTCATAAT	CTTCCTCCTC	ATCTTCATAG	TCATCTGCAA	CATTCTCAGT
100141	GTCTAATACG	ACAATAACAG	AGTTGGGGGA	AAAATCAGTC	GTGCTACGTC	CAGACTGGCC
100201	AGTATTTTTA	CTGCTCCATG	GTGTAGCATC	ATGCTTTCTA	GGCTTTGCTG	AATGTAGACC
100261	ATTATAGTTG	GCTCTCCCCA	TCATATCATA	CAGTGTACAC	ACTAGTGTAT	TACCAATGCG
100321	TTTTCCACTC	TTATTGTTAT	CACAATAATC	CTCATCTTCT	CCAACAAGAG	TTGAGTACAC
100381	ACTGGAATCT	GTTAGAATTG	TATGAGAAAC	TAATGCCTCT	TTAAAAATAT	CGTCACTCTC
100441	TTCTAACCAG	AAATCTGATA	CACTATCATT	ACATTTATTT	GCAGTATTAT	CAATAAATGA
100501	ATTGAGTAAA	GGGTGTAAAG	GTTCCACGCC	AAATAAAGGT	ATAGGCACAA	ACTTTGCCCTC
100561	ATCCGTGCGA	GGTAAAAATG	GCCTGTCTTC	GTTGTATGAT	TTTGGAAAGG	TTGTTGCAAG
100621	AACACAATTT	CTTGCAATTT	TTAATGCCTC	AGCTGATATA	CGTAGACGTA	TACTGTTTAA
100681	CTTTTGCTCT	GTTGTCTGGT	TATTAAGATC	TCCACACAAC	GAGTACATGG	CATTATCGAT
100741	ATTTCCCTCT	GCATGATCCT	CTATGACCAA	ACCAGCCTTG	GTCATTAGAA	AATGGTCTGG
100801	GTCTTTACCG	AGAGGAAGAA	TATCTGCATT	GAATTTTGAA	ATTATATCAT	TGACAACACG
100861	TTCACAGTGC	ACAGATCTCT	TTATGAATTT	AGAGGCTAGA	GATATGAAAT	GTCTATTTAA
100921	ATTGGAACCT	AGCCTATTCC	AAGGAAGTGA	ATTTTGATGT	CTTTTATTAT	CCCTCTCGTC
100981	AGAAGGGAAC	AAAAATTGAA	GTAATCTGGT	CCAATTAACC	GCAGCTGCAG	TTTCTCTCTG
101041	GACGAATGTT	TGACGTTGTT	TTAGTAGCTG	AAGAGACACT	TGGGTTGGCT	TGTCACTACT
101101	AGCTGGAAGA	GGGTGTTGAA	AGCCACAGAC	GCCAAATCTG	AACGTCATCT	TTAGATTGGT
101161	GTGTAGAGAT	TTTGTGTATT	CCTCTTCGTG	GATTTTTCTT	CTCCTTTTAT	TGGGCACAAA
101221	CTCCTTTGTC	TTTAATTCTT	CCAAGAAGTC	TTGTACATTG	TCCTCATTCG	CGAACGTTAC
101281	CTTCCCCTCT	TGCCCTCGTT	TCATCACGTC	GTTGTTCTTA	AACAGGCGCG	CAGAAAGCTG
101341	CATCAGGGAC	ATTTCTTCCA	ACTTTTTTAGG	GTCTTCATGG	ATGTCCTTCT	TCCTCTTCCC
101401	CGAAGAGATA	AAAGACCCTA	TAACATTCTC	AATGCAATGA	ACTGCATACT	GTCTCAATTT
101461	TCTGTTTGTC	ATCCCTGAAC	CAAAGCCTAT	TACTGGAACA	ACCATGCCGC	ACTTGTGGTT
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101581	ATTAACATCG	TTTCGTAAAC	TCTGTTTATA	CTTGTGAGCA	ACCCAGTTCA	CTATAAATAA
101641	CAAGGCATAA	GAAGCAGACA	CCTTTCGTCC	CAAAAGTTTA	GAAATTTGAA	GGGAGAGCCA
101701	GTCTGCCATG	TAGCCATCTG	ATTCGTGTTT	GGCGATAGGT	GTCTCATCA	TTGTGACGGA
101761	TGCTTTCTCC	ACTCTATCTG	CTACAAATTT	CACGTCTTTA	ACAATACTTT	TTCTGCACGC
101821	ATTTTGTGTC	TTAGAGTTTA	TTCTTGCATA	TTGGAGTTCA	CAGGGGTAAT	ATTCTTCCCC
101881	GTCATTATCT	TCATTGGAGG	ATGAATTTTT	AGTTTTGTTG	TCGTTCTTTA	TATACTGTTT
101941	CAATTTTGAG	AAGGGAGTAT	CCAGTACGTT	TTCTCTACAT	GCACTAGCCG	CAGAAAGAGT
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102121	ATAATTCGTT	TCAACGTTAA	AGTACCTTTC	CAATCTACGA	GGCACTTTAA	TGTTTTATGTC
102181	TGGAAGGATT	TCAAAATTCT	CACTAAACAT	ACCCGACAAC	TTGTTTGATT	TTCCCAATAC
102241	AATATCTGAC	CTTATGTATT	TTTCATAAAA	GTCAAAATCC	GTCATCGTTA	AATCAGTTGG
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102481	TTCAACGTGT	CTAGATTCTA	TTGTCTTCAC	ATCGACAAGA	AAGTATCCTT	CACGTACTACT
102541	GGTGCAGGCC	AATCTCTCCA	TCTTCTTGTT	GTAGTAGTCT	ATCCTCTTCC	TGAAGCAAGA
102601	TATTATGGAA	GCAACTCCAT	CCAACATGTG	GTACAGGGCT	GATTGGGTAC	ACCACTCGTC

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102661	ACTATTTACT	CCATCACGAG	CAGTGAAGAA	ATCTTGAAGG	AAACTGTATA	TAGAGATGAA
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102781	GTGCCGTATA	ACTCTGTCTA	CGAATTCCCA	TGTCAGGTTT	TCATTTACGT	ATTCTTTTAG
102841	GAGTGCCTTT	TCTGCTTCTA	TAGTTGTAGT	AGAAGTTGAA	TCCATAATGT	AGGAATGAGG
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103381	TTACTGGGTT	CCCTAAAGAT	GTGGAAAAGG	AACAGGTGCA	GAAGAAGAAG	GAGGAAGAAG
103441	AAGAAGACGA	AGAGGAACAG	ACGACAGATA	CTAACCCCAA	AAATAAGAAA	GTGGAATATG
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103561	TGTCTATACA	AGGTTCTCCT	GGTACAAAAA	CTGTCTGTAA	GAAAACGACC	CTACCAAAGT
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103741	CCTTAATCAT	GGGCTCTTGT	GGCTACCTTG	TGATGAAGGA	TATAAGCAAA	GGTACAAGCC
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103861	CCCCTTTTTT	AGAAAAATTG	GAACAACAAC	AATGTCGTTG	GCTGTGACAG	AAGATTACGG
103921	GCACAATGAA	AAGTTGATCA	AACGGTTACA	AACCTCTGTA	TATCACACCC	CTCTATTAGG
103981	TGCAGACCAT	GTAATGAAAT	CCATATCAGA	CTACATAATT	TCTCGTCGAT	TCATGAACTA
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104161	ACCAGAAGAT	GTTGCATTCT	TCAATTCTAA	GATGGGGGAA	GTAACGCGCC	TATTTACTAT
104221	TATAGGAGGT	AGGCCCAATA	TGACGGTGCG	GGTTAATTTT	AAACATGGGC	AGACAAATAA
104281	TCCTGCCTAT	GGTTATCTCA	CAGATGATAA	TGATACTACT	ACTGTTACTC	TCCTCTGTTAC
104341	TCCTCCTCCA	TCTCCAGCTG	CAGAAGATC	CCCTTTTTC	ACACGCACCT	TCATATCCGA
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105841	ATTCTAAGGG	GTTGATGACA	TTATCAGTGT	CTGAATATAC	ACTCAAAAAA	GAGTTGGTTA
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106141	AGTCTGCTTC	ACTTTTCATG	GAAGAATTCC	CTTGGCTTGC	AAAAACTTGG	ATCGACGACG
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13x

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127261	GGTCTTTTTT	ACTCCCTTTT	CCTCTGTTC	ACTGGTAGAC	TGTTCTCCAT	TTTCTCGCTT
127321	CTTTTGTTCC	TCCCTCTTCT	TTACCTTCTC	AAACCACTTT	TCGGTCTTGT	TTCTCGTACG
127381	AGCTTCTTTT	GTGGTCAAAT	GTCTTTCCTT	GTTGTACCTA	GTGACAATTT	TTGATGTGTT
127441	CTCCATCATG	GAATGGAGCT	TCCTTTGTTG	TTCAATTTCA	AATTGGGTCA	TATTTTCTTC
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127681	GTTTTGGTGT	TTGATACTGT	CGTTGCAAGC	GATAGGTGCG	TCACAGCCAG	TCACGGCCAT
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127861	GTAGAATTCT	GTAAGAGGATA	TCGAGAAGAC	GAGACAAGAG	CCGCTGTCTG	ATCTGAAGGT
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127981	GAAAAGTTGT	TCAGTTTCGA	TATACGAGTT	TTTGTACTCC	TCTTTCTTTA	CTACTTGTGT
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128101	TTTTGTGGTC	TTTTCGACCT	GGTTTTCTAG	TTCTCTTTTT	ATTTGTAAAT	TTTTCTTAGC
128161	CAACTCTTCG	CGTATCTGGC	GTTGCTTTTC	ATCACTGTAT	AAGATAACAG	CGTAGGCTAG
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157801	AAACAGTCAA	AAGTTAATGC	ACATTTCTGG	AGCTATCCCA	TTTCTGGTGC	AATCTGACAT
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159841	GAAAAGGAAA	AGGAGGAAGA	GTATGAAGAA	GAATTCAGAA	GAATGGCATT	ACCTTCACGG
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175201 AATAAAGGTA ACAATAGAAA ACGTAAATTT TCTCGAATCG GACAAGAAAA GAGCTCTTTT
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180901	CTATTCTTGC	TGTTATTGTT	ACTCACTCCA	GAATACGCGT	CACCGAAAAA	GTGGTTTAAT
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181021	TTCTTGCTCT	TCTCTGAAAA	CATGTTGCCG	TCTTCACTTC	TTTTCTCTGC	CTCACTTCCA
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181861	AGAGAAGGAG	CAGGAGTCGA	TGGTCTTATT	TTGCTAGCTC	TTTCCCCCAT	TATATAAGTT
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181981	AATTTCTCAT	TTGTTTTCTT	GAACAGCTCG	GCAGATTTAA	TGTCTGTCAC	CGCAGCAGAA
182041	TCTAAAAATG	CCTTCATGGT	TAATTCGTGA	GCGATGATAT	TTTTAAGGCG	CTCCATTACT
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182581	GAAAACATTG	TAGGTGCTTT	TGGTGAAGGT	TCCTTTATCT	GGGGGAGAAT	ATCTGTCTCT
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183001	GGGCTGGATT	CAACTCTATG	AGAGTGCACG	CTTTTCATTT	CTATTGCATC	TTCATCCTTC
183061	TCGGGTTCAT	TTTTTTCTTG	TTCTATAGGT	TCTTTTCTTT	CCTCTTCTTC	CTCCTGTTCT
183121	TCTTCCTCTT	CCTCTTCTTC	CTCCTGTTCT	TCCTCTTCTT	CATCCTCTTC	CTCTTCTACG

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211261 AATGATAAGA ATGAAACGTC TACTATTATT AATTTTCAGG ATAGGCTTCT TGTTAACGAT
211321 ACCGTGTTGA GAGACGCCAC GCAAACGTC TCAACTTCCA CCCCTTCTCA AAGAAGAGTC
211381 CCCACCGCCG CAGGTGAACC AAAAAAGCCA ATGCTCTCTG GTTGCTTACC TATCATCAGG
211441 GGACCCGAGG TAGTGACCAG GGAAAGTGAT GATATGATTA GTGGTCTTGT GGGTGATTGG
211501 TATATCTCTT TGGGGGTCTA TTATGCCATG GGTTCATCGG CTGCAGCTAT TGCCGCTGGC
211561 CACCAGAGAG CTCTCGCTTC AGCCGAGTCA ATTAATTAC CCATGATGAA AAAATTCTCA
211621 AAGAAGGGAG GAAAGTATAC AGAGGAGGAA AAGCGAATCA AGAAGGCTAT GCGTAGGAAT
211681 GCAGATCGTT CTGCTAGGAT TTTGGCTTTG TTGGGGCAA CTGATGCCCA GTATGGGTAT
211741 GTCGAACATA ATTCTACCCT AGATTCTGTT TGGTCTTCTG ATGCCGCTAT TCGTGCAAAG
211801 GCAAAGGAGG ATGCTCTTAG CCGTGACGAA ATCTTGGCAG TTAGGAAACA ATTGGACGGA
211861 AAATGTTTCT CTTCAAGGGA TGAATATTCC ATGGTAGAGA GATATCTTAG AGACTCATTT
211921 TTCAGGTCAG TTAATAGGTC AGGAGGAGGA TATGAAATGT TTGATCAAGG TTTTGATATG
211981 GGAAGATTG CCGACTTTTT GAGTGACAAC TCTGCTGCCA GGAACGCTTG GCAACAGTAC
212041 GGAAGATTG TGAAGGACT TTCTAAGCAT GAGAAACGCG TATTCAACAT TGAAGGTCTT
212101 TTCAGTGCTC TAAATTCTTT CAAGTTCCCC CTTGTTCCAG AACAGGGGCG TAAAAAGACT
212161 GTAGGTGGAA GGCATAGGCT TAACAATTTG AAGGCGGCCA ATAAGATCAT TAACGCATC
212221 ACAGAGATGA CTCTCCAGTC AGCCATCGAT GGTACTGGAA TCTCTGATAT TATTGGTTCA
212281 GTTAGCGATG GGTGGGGAAA TACTACAGCT CAGCCGTCTC GCGTCAAAGC TCTTAAACA
212341 TTGTCCAATT TCAGCGGAAA CGGAAATGTT GTGTCAATTC CAGTTAGTCG AGCAGTAAAG
212401 TGTGCCGCGG GAAGTCGAGG TGGGGAAACT CTCAAGTGTG TGGACATTCC TTCAGTCATT



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212461 ATTGCAAACC TAATCTCTGA TAAGAGAATT CTAGATCAAC TTTGCGGAGG AGGGATGAAC
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212581 GAATCCGTTT TCTTGTCTCC TAGATTGTCT GTCATTCTTT TCGGTTATAT TTGGTTCAAC
212641 GCAGCGGTTG TTTCCCTTAC GGATAGCAAC ATTAATAATGC CCCTCAACAC AATGTCCGAG
212701 GGCAGTGGCG ATGACATTTA TAGGGACTAT TTGGCCATCA GAGGCATGGT TAATAATTAC
212761 AACAGTAGTC TCTCCTCTAT TTCAGTCAAG GCTATTTCCG ATAGGTACAA TTGCGGTAGT
212821 GGAAATACTT CAACCAGTAA TAAGAATGTG ACCATTAAGA CTCAAGGTGA ATTGTTAACT
212881 GTCCTTCAAC AGACTGCTAA TGCCTTGTC GCCTTTACCA ACAAGGGAGG CGTGGGTGCA
212941 ACCCCCGATG CTGCCAATAT GGCCAACGTT ATTTCCCCAA TTGCTAATGC GGATGTAGTT
213001 AAGAACACCA ACGTGGTTGT TTCAGGGCTA GATAGGATCA CTGAGACCAT CAACTTCTTT
213061 TCATTTTTGT CTCAGATCAA AACAATGAAC GAGAACATTG AAGAGTATCT TAGGAGATAT
213121 AGGCTAGGAG AAGGACTAGA TAAGAAGAA TTGGATAATT TTGTGATATCC AAATATTGCA
213181 GCTATTGTTA AGCGAGAATT GGGGTAAGT GGTTCCGCAT TGTCCAGTAA TCTCGATACT
213241 GATCGTCCAA TTACTATCGA CCTGAACACT GAACAGCCTT TGATCGTAAA GGCTAGCAAG
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213481 TTCACAGAAA ATGGAGAATT TAGTAACGCA GAAACACACT TGGGGGTTAT GGGTAACGCG
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213721 TTACTGGCAG TCACTGCAGA GACTTCTCTG GTTGCTCTTA GGTCCCAGAA GAGTTTCTTC
213781 CCCATTCCCTC CTTCAGTATT TTCTTCAGGT GGTCTTTTCA AAATTGATAG GGAAATGTTT
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213901 GCCGCGATCG AAAGGTGCAA TGATTCCGAT TCAGCTGCTA GGATTGCCAA GTCAGGTGAA
213961 ATTTATAACA AGGATGTTGC ATCAACCACT GCAGCTCCCG GAACCTCTTC CTCCGCTTTA
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214141 CTATCTACAT ATTATCAGGG TATTTCATAAG ATGGAACCTA ACAGCGATTG CAAACCAGAA
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214261 AGCGATAACA ACCGTTCAAT CAATTGGGCA TTGGATACTC TTTTGGCTTC ACCTGCAGAG
214321 ATTTGCGATC TGGTGACGAG GGAATGGTA AAGACCAGTA ACGATATTGT GCATAATATT
214381 GGATCGAATT CCAACACGGA CGCGCTTCAA AAGAGCCTTC AAGTTGGTGC CTCAGCAGTA
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214501 GCTCTGGCTA AGAGCAAATC TCCTCTATCT TCTTCCTCAT CTTTGTGCTC TGAGGGACAT
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214621 ACTACATCCT ATTCTGTTTC TGAAGACGCT CTCAATGCTC CTCTTTTCAGC CGTGTTGGAC
214681 TTTAGAAGGA ATGTTGTGGA TGCTACTAAA TCTCTGTACG AAGTTGCAGC TGTTTGTAGT
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215161 TTCCAAATCA CTGCACCTAA ACTTTACGGT TCTAGAGTCA ACACCTACGC AGCTCTGAGC
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215941 GAAGAGGATA AGAAATTAGA CAGGAGTTTT GTTACATCAC TTTATTTCAGC ATACAGAGAT
216001 TTGAGGAAGA AGACTGAACT ATACAGGGAA ACTGATACTA TTAACAAACT TTTCGGACAT
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216121	GTTTCCGGCC	CTAGGCCAAG	AAGGTACAGC	ACCCTTGAGG	ATGTACTTGA	GGCTCCTTCC
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216241	AAGAGGGCTG	GA CTCAGGGC	TCTGGCTGAT	AACAGGATGG	AATCTCTTTA	CGGGGAAGAA
216301	GTCTTGAACG	ATATGAGGTC	TTCGGCGGTC	TCTTCCGAAA	TGATGGATAT	AGAGTATGGT
216361	GAGGGAGGAT	TCATGATGAT	GATTAGTGAT	GATGAGGATG	ATATTGCCTT	TATTGATTCC
216421	GAAGAAGAGT	CTGAATCATC	TACTGATTTT	TCCTCATCAG	ATGAATATTC	CGATTTCATCC
216481	GATGAGTATG	ATTTTGTATG	TGATAATAAT	GGCCAGTCTC	CTTATTCAAC	TACATCTTAT
216541	TCGTATGATG	CTCTAGACCG	TCTGAATTCT	GCCGCTAAGC	CTCTTACTGC	CATCTACGGG
216601	TGCAGGGGAG	AAGGTGAAGA	CGATGAGGAA	AATGACCTCT	ATGAAGAAGA	ACAAGAAAGG
216661	AGGAGACGTC	GCTCATCAAA	GATGGGGAAG	ATCCTTAGAG	ATCTTCATGA	GAGTGATGAT
216721	GACGACGATG	ACTACTTTGA	TGACGAATTT	GATGGCGAAC	GTTCAATGTC	AGAAACTATT
216781	GCAACCAGAA	GAGCTGGCCG	TATTCAATAT	GGTCCAGGTT	TCCTATCTCA	TTCTAATATT
216841	CTTAACCGTC	CGGCTAAAGC	ACGCGCTTTC	TTGACACGAG	GCAAGAAATT	CAGGCCTTCT
216901	GCGTACGATA	GATTCTTTAT	GGAGGATGAC	GATTCCCTCC	TCTTCTCTGA	CGAATCTACC
216961	ACTTCTTCTT	CCTCTTCCGA	TTCTCCATT	TCCTCCTTCA	GCAAGGGGAG	AAAATGCAAG
217021	CGCCGAACAA	GCGAGGACCA	ATGTGCCTTT	GTTAAGAGAG	TTGTACGTGC	TTTTGTGCC
217081	ACCAGAGTAA	CAATGATCAA	TGGTCGAGTT	AGCATGATCA	CCCCAGTGAC	TAGTGAAAT
217141	ACAGTAGGAT	TCTATGAAAA	TTACCGAAG	GCCAACAAGA	GGGAAAGGGC	GCGTCTGATC
217201	GAAGAATACA	AAATTGTTAA	GGTGCCTTCA	GCTACCTTGC	CCGACGAATA	CGTAGAGGGT
217261	AGAGCATCTA	AACAAGTGTC	TCCCAGGGAA	CTGAGGAGGT	CTCTTATCAA	GGCAGTGCT
217321	TATGTTGCCC	GCACCCAAGA	AAGTAACTTG	AATATTATCT	TTGACGCTCT	CACCACAACA
217381	TCAAACGCCA	CTCTAGTTAA	TGACCCATCT	ACTCTTTTGG	GTGATACACT	TTTGTTCGCC
217441	AAACAAC TAG	AGGCAATTAC	CGAGAGGAGG	AATAGGCTAA	TGAAAGACCT	AACTGAAATC
217501	TCTCCTTCAC	TTTTCACATC	ATTCGGTGAT	GCAAGTAAAG	ACACCCAAAT	GATGGCCGAT
217561	GCCAAACAGA	TCGTTTCAGG	AGGAAATTTT	AAGTCTGCCG	GCTATCTAGG	TGTCCTCTC
217621	AGA ACTCTTG	CTTCATGTAT	TAAGGGCACT	AATACAGTTG	ATCGTCTTTT	GGCTACCAAA
217681	AATAAGAACC	ATCTCGAATG	GATGACCACA	GCCGCTATTG	TTTTTGCACG	TTCATTCAAC
217741	TACACTACTT	TCCATGCAT	CGAAGATACA	CTAAAAATGA	CCTCCGCTTT	GACAGACATG
217801	GATACGCTT	TCACCAACCT	CGTCGGATCG	GACCATTTCT	AGCGTCTAAA	AGTAAAGAGT
217861	ACTCTTTTAG	ATTCTATTTT	CAACACTAGG	ATGGCTCACA	CTGAAGCAGT	CATGGGTCTC
217921	GTATACCCTA	CAGCGTTCAT	CAACCATGAA	ATGCCCTCTG	ATTACACACA	GCGCAGAGAG
217981	ATGCAATCAC	TCGCTCTTAA	CATTCTTAGG	GGAGTTAATT	GTAGCCAATT	GCCACGAAAG
218041	GATATTGGAG	ACACTGCTGG	CCTGTTGACC	TTTATTACAT	CACGTAAATT	TGCAGGTTAT
218101	GGAGGAGAAA	GGGGAGGTTT	GTCTCTATAC	AGAATGTCCA	TTGTTGATGC	TCTTTCTTGC
218161	CCCTCTGACA	ATCGGCTCAA	GGGAGCAGTC	TCTCTAGAGG	TAGGAAAGTG	GCAGGATATG
218221	GGAGAGGAAA	TCTTCTACAA	GAGGAGCAAC	GATCTGGTGC	ATTTTGTTCG	AAAGAACAAT
218281	ATTTCTCTGG	AAAATGCCGT	AGGTCCCTATT	GCTAGGTTTG	TTCCCAATGG	AACTAACATG
218341	GCTGATATTG	GCATGACCGA	TATCATTCTT	AGAACAGTCA	AGGATGACGC	TTCAATGATC
218401	AGGCTTAGGC	GCGCAGAAGA	GGGCGCTGGC	GCAGCAGGAA	AATTCATTAC	AGCCTCAGCC
218461	ATGGGTAATT	TGTACGGAGG	TATTGATACC	GTTGTGAACC	TAAC TGAAAA	ACTATACGAC
218521	TCGTTCTGTT	TGCTCCAAGA	TTCAGACTCG	TTCAATACAC	CAACAGAAAT	GGCCACTGCT
218581	ATTATCAACC	GTATGAAGTC	GAGGAAACAT	AAGGCTCTCA	AAACACCATT	CGGGGGAGAT
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218701	ATGCGTAACT	CTATTAGCAC	TATCGTGATG	GACATTTCCA	AGTCAAGGGG	AATCAACTCG
218761	TTCTCATCCC	GCAGTGGTTC	TACTTTGGCC	AAGATTTCCA	CATCTGAATT	TGAAAGGATA
218821	CTAGAAACAT	CTGCTGTTCT	TTCAAATACA	AAGGCCAATC	TGAGAACCAT	TGAGAATAGA
218881	CTCGCCGAAC	ACTACAACAA	ACTAAAACAA	TTCAGCCATA	TTAGTAATGA	TGGACTTTCC
218941	GAGACACGCG	CAGTCGTTGC	CGTAATTGCT	GAATCTTTAA	CCCCCGTGTA	TGCGGATGAC
219001	ACCAGCGAGA	GAGGAGCATC	TGTTAGTGAA	CTATTGACAG	ACAATACTCT	CCTCAAATTT
219061	ATTGTTCAAA	ATGAACTGAA	AAACATTGAA	GAGGCAAAAC	GTCACGTGAC	CGCCGCAATT
219121	GAAGGTTTAT	CCCAACTGCA	CGAAAAAATG	TTGAGCCTGC	TCGTTGCCTC	AGCCGACATC
219181	AACCGTATGT	CCGCCCAAAA	TAACCTCGAA	TGTAAGAAAT	TGACTGAAGG	AAATAGTAAC
219241	TTTGTACCAA	TGACTAACGA	CCAAGGTGGT	ACATT CATAA	AGCACAAAGA	AACAGGTATC
219301	TGGCTGAAGA	CCGATGAAGA	AAATAACACC	AGTTCTATCA	AGGACAATGA	TCAGCGTAGA
219361	GTAGCTAAAA	CCATCCTCGC	AATTGTAGAG	GACAATAGAA	ATGCAACCAT	CCGTCTCGT
219421	CTACAGTCTC	TTTGCTTTGG	AAAATATTGC	ATGAACGACA	TTTTTGCACT	TGATGATGCC
219481	GATATTAAGA	ATATGGACAA	ACTCATTGAA	AAACTAGGCG	AAGCACTCGC	AGAGAAGGCA
219541	TCTCCTTCTA	GCTCGGCCAT	TTCTTCTTCC	TCATCATCTA	ACACAACATC	CTCCTCTTCT
219601	TCTCCAGTT	CTTCCCCATC	ATCATCATCT	TCCTCTTTCT	CAATGGACTA	TTCAAACAAC
219661	CTTGCCAAAA	CTATCCCCTA	CATGCCTATC	GTCTTCCAAA	ACAAACAATC	TAATGTCAAT
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219901 GTTGGCATCT TCAACGGAAG GCAACACGCA GAGACAGTTG TTGCTATACC AAATGCAAAC
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220021 CCTGAAAATG TTTCTCCAC CAGCATGCAA TTGCCTCCAT CATCATCATC ATCATCAAAT
220081 GGAGATGATA ATAAGGTACC AGTAACTGTC AGGCTTAACC AGTACGCCAA CTCAATCTTA
220141 TCATCTATTG AAAACGCATC AGAATTTAAG GACTTGAAGG AAGCAGAAAG GAAAATCGAT
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220321 GCCCTCGAAT TATTGGAAAG AGTTATCAAG GCAGTCGAGG TTTACACCCC AGATTTCATCT
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220501 GACTATTTCA ACTATGCTTA CGGAAAATTG AAGAACATTG ATGAAAATAC TGAAGAAGGG
220561 GCAGAACTG TCCAGAAAAA CATGGTCGAA CAAGATGCTG CCGTTCGCAT CCCTCTTCTA
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220741 TGGGCCATCA AGGAAACGGA CAAGGAGCTT GATATGGACA AAGAACAGGT GATTTCAAAG
220801 ATTAATAACT TGCAACAAAA CTTTTCAAAC GAATCAGACA AGATAAAGAT GGCTATTAGT
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220921 GAACTACAA AGAGCCGTAT CGAGGCTGGT GGAGGAGATG TAGCAAATG CAAGGAGATT
220981 ATCGATTACG AAAACATC TGAAAAATGAC AACAATCTCT TCCAGAGCTT GAAAGCATTC
221041 GCTGCTGATA ACTCGGGGAC AGTTTACACC CCCACTGACA TGAGCAATGG AAGAGACACA
221101 AAATCAGACA GTAAATTTGT CGACATGTAC AACAAACAGA TTCTCGAGGG AGGAATCAAA
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221641 ACAGAACAGA GAAAGGAACA ACAATACGCT GCAGATAGGG TTGTTTACGA TCCTTCATAC
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221761 AAGAACAAGG GTCCTCTCAG TAACACACGT GGTGTTCCCA CTAGCGATGC CGACTTGCAA
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222001 AACAAAAGAT CCCTGAAGCA GCTGACAGAA ATGTTGAACG CTGCCACTTC ATCCAGTGAC
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223021 GCTGAATCTA CGTTCGCCAC TCAACTCGCC TACCGCCAGC GCCTGTTCCC TAACGGAGAT
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223321 GAAGACAGCA CCAAATATTC GTCCAACCAA CTTGCTGTAC AGGCCATGAC CGATACTGCT
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223441	CTTCTCTCC	CTACTTCTAT	TACTTCTATC	GCAACCAGTG	GCCGTCCATC	ACTCTCTTAT
223501	TCTTCGGACA	TGAAATCTAA	CCTCATCAAG	ACAATTTCCC	GCATCAATAG	AGACGCTAGC
223561	CTCCTGTCAA	TGGGAGACAG	CCAAGTAGCT	GCAGGTTCTT	CCTTCTTTAA	CTCTTTCCTT
223621	CGTTCTTCTT	CCATCCCTGT	CACCACCAGC	CAGGATGGAA	ATGTTGCAGC	AGCGGAAATT
223681	GTTCTGGGGA	CTATTCTCGA	CAAGACTGTG	GAGATCAACA	AGAGATTCTGA	GATGCTTGGA
223741	GGAGGAAAAA	TGGTCGCCGG	GAGTCTTGAA	GCTCGTGCCA	TCCAGCGCAA	TACAATGTCC
223801	TCTATTCTCC	AGATGAACGA	AAATGAACTC	GCTCGTGACT	TGTGCGAAAT	TGAAAAATAAA
223861	ATTGAGACTA	GGCAACTGAG	GGATGCTTTC	CAGGATTTGA	AGAGGTCTAT	GCTGATGACT
223921	CCAGGAGGCG	TGGGAGCCAT	TTCTTCTGGA	GCAAGTACCA	ACAATGTTCC	CCTTCTCTT
223981	CTCATGTCAC	GTGTGCGATG	ATCCAGCGGT	CTTCTGATGA	ACAACAACAG	TGCCAATTGA
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224161	GCTCTCACC	CCCGCGCTCT	ACTGAGCGAA	TCTTCCCCTC	TTCTCACTGA	AATCTGCCTC
224221	TACAACACCC	GCGACACTCA	ACCAGAAAAG	GCAGTCGACA	GACTACTAAC	TTCAGCCTAT
224281	CTAGTAAAC	AAGCTAAAAG	ATTCGACGGA	GTTGACCCAG	CCTTCCCTGC	CGCCCTCACC
224341	TGCGCTTCTC	ACCTCATGCT	TTCTTCCATG	GATTCCCATA	CAAAGTCATC	TTTCATGGAC
224401	AACATCAAT	TGCACATGAC	TGATACTCAA	TGCTTCTTCA	AGAACATTGA	ACGATTTGAG
224461	AAATTCTTGG	GAAGATATGG	GGACGAATAC	GCCATGTCCC	ACAAGCAAAA	TTGTAAGTGC
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224581	GCATTGCCCC	GCCCAGAAGT	CTCCATGGAA	GAAATTAGAG	CCACACCCTA	TCAGGCCAAC
224641	AAGCTTATTA	GTGACAAACA	TTACGTGATG	AACATGTCCA	AGATCGATTTC	TAGAGTAACA
224701	GGATCTTCCC	TCCTTAAGAA	GGTTAGCGAA	TGGACTGAAA	TGAGAATGAA	CTCCAACTTT
224761	AATGGAACAT	TTGAACCATC	AAGACTCGCC	CTCTCCAAC	CTGGCATGAC	AACGGCAGGA
224821	GTCAACCTCG	ACGTTATTGT	CAAACCAAAT	AATGCAAGAA	GTGTACTAGG	AATATTGGAA
224881	TGTCATCGCC	AGCACGTGTG	CACCGCCGAC	GCCAAGGGAA	CTGTCGCTTC	AGCCATGCCA
224941	CCCGTCTTCC	AGGCAACCGA	TGGAACCGGT	AACGAATCTG	AACTGATCCA	GAATGCTCTG
225001	CCAAGGAACA	GATACATCCA	AAAGAGCACA	ATGAACGCTC	AACTGTCTGT	GTTTGCTAAT
225061	GTTTTGGAAC	AACTTATCGC	CGATCTTGGA	AAGGTTATCG	TGAACGAAC	GGCCGGCACC
225121	ATCGCTGAAT	CTGTACCAGA	AAGCGTATAT	GAAAACACCA	AGGAAATGAT	TGATAGACTA
225181	GGCTCTGACG	ACCTCTTCAA	ATCTAATAAT	AATGGAGGAG	TAGAATCAAT	GGATTATGAA
225241	GATAGCGAAA	CAACATCCAA	CAATGGTCCC	GTCCTCATCT	CAGAAGCCAT	GAAGAATGCC
225301	GTCTATCACA	CACTAATTTT	CGGCAAGGCA	GCTCGCCCGG	AAAATGTACC	ATTTCGCTCA
225361	TGCGCCAGCG	GCCCTCTCGC	CTTTGATTTT	CTTCTGTCAA	AGGGAGATAC	ATTCTGAAGAA
225421	AAGAACGCCG	AACAAGGTGC	AGCAGCTGCC	GTATCCTCTA	CCTATTCTTC	CTCTTCTAAC
225481	ACTACTCTTC	GTAAGCATTT	GGCTCGAGTT	TTCGAAGCCA	TCTCTAAGCA	AGTAACTGAT
225541	GCTGAATTCA	AGGATATCCT	CAACGATATC	GAACGTAATA	TTTCTTCTGA	CTATACTAAC
225601	TGTCCACCAA	ATACTAACCA	AAATGCCTTT	GCTCTAGCTA	TCAAGAGAGA	ATTACGACGA
225661	ATTGTTTCCT	TCTTAACCAT	TCTTCGTAAG	AACATTACAC	CCGCATAGT	CGACCCATAA
225721	GGCGGTTTAC	ACGAGAAAGT	AGCCATCTAT	TTGACCCTTC	TTTCAACCAA	ATCAAAACTA
225781	GAAAACTTTT	TCCAATACGG	TCTCAGTAAT	TCGTCCCTCAG	TTGATCTTAG	CCATCTAAAA
225841	CCCATTAATT	GTAGCAACAA	TGTCAAGAAT	ATTGAAGACA	CATTCTATGTA	CAGAAATGTC
225901	CACCCTATTC	TTATTATGGC	CCTCCCAGAA	AATTTACAG	CTCTCTTGCA	ACAGGAACAA
225961	ATGGACCCCG	ATACTGCCAT	TGAAAGCAGA	CGCTCCCTTA	CCACCTTCCT	TAATCATCCC
226021	AACACTGCTT	CAATGGCGAA	CGGTGCAAGA	GCCGCTGTGG	GTGCAGGAGG	AGGAAACCCA
226081	ATGGGCTTGT	ATCTTTCTTC	CCACATCTT	CACGAGTCTA	CCGTCAACAC	ATCAAACCCC
226141	GTCACAGACA	CCACAGAAAA	CGTCAACTAT	CATTCTCTTG	TTACACAAGA	TCCTGTTATG
226201	GTAGTGAACC	CCTTCAAGGA	TTCTGCTAGG	TTGATCGTTA	ACAACAACAA	TACTGGAATT
226261	GATGTCTTGA	ATGATAAGTC	GTGCAACTAC	TTGCAAGTAT	CCATGCCATC	TGAATCATCT
226321	GGCCTCGTCA	CCAATACTGG	ATGCTCTTCT	TCTTCTTCCT	CATCTTCGTC	TGATACCTTC
226381	AAGTACGTCA	GGAGAGACAA	TACGCCTGTG	AATCTTCCCC	GTGTCACACC	AGCCGTTCTC
226441	TGTTCTGATG	CTTCTCTTAA	TCTCTTGGAC	GTGTTCTCCA	GGGCAGATAT	TGTCCTCGAA
226501	AACATGAACG	TGAGATTTGG	TTTCATGCCC	GAGATTATTG	CTGCCGTCTC	CAAATTCAG
226561	GGGCTGACCA	AGGAAGAGGT	TATTAAGCAA	ATGGTTTCTC	AGAACAACAT	CAACAACAAC
226621	AGCAACAACA	ACAACGGAAA	TGGGAAGAAA	ACAACCGTCG	ATCCAGTCAC	TGGGGATATT
226681	GGTATCACCA	ATGCCACATT	CCCCGACACT	CGTCTCTAT	ACACTGCAGC	AAATGGAGGA
226741	ACATCATCAT	TCAAATGGGG	AGATATCAAC	GACAGAAAAA	TGCAGGAAAA	GGCTTTCCCC
226801	ACCTTCTTTA	TTGGTAACCC	AACCGCCGCC	GCAACAGCTA	ACGGAGTGCC	TCTTACATCT
226861	GAGGGAATTT	CCCTCACTGA	AGAAAAACGC	AAGAAAATCG	CAGGCATCTC	TGAAGGATCA
226921	ATTGGCACGG	GGGCTCTGCG	TGCAGCCGCC	AACACCCGCC	TCTCATCCGA	CATGGAACCT
226981	GTCATGAAGG	GATGGAACAA	CATTGTTTCT	CTTCAACAAA	CATTCAAGAA	AGCTTCAGAT
227041	AAACTCACTC	ATCTTTTGAG	ATCGGGAGGA	ATTCCACCCA	GAAGCCAAGA	AACAAACGCT

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227101	ATTATTAACA	AGATGCACGA	CAGCTTCAAG	ACATTGGAGG	AATGTCGTAG	GGTGATCCAA
227161	GACGAGGCTG	CTCTGCTCGT	TGCCACCAGC	GATCTTTTGA	CCGGTGGCTA	CGGAGGAGAT
227221	GCTGCTCTGG	CCATGGTTTC	TCCAGTACGT	CCAGAAATGA	CTGGTCTTAT	TGGTGCAATC
227281	TCCGCGCCAG	TTAGAGGTAT	TAGCCACTTG	TTGAAACTGG	GAGGTGTTTC	TGCTGCTAAC
227341	GCAGCTATCC	GCAAGCGCCT	CAACCTACCT	ACATCCAACG	GGAAAACACT	ACCAGAACAT
227401	GGAATCGTAC	ACAAATCAGC	CAAGACACTT	TTGCTTGATT	CAGACTCTAT	TAGCAACCTA
227461	TACAACACTG	ATCTTCAAGA	CGTTGTCTCT	AACGCTAGGG	ATAACAACAA	TTTGGGAAGA
227521	ATTATGCAAT	CTTTGGGACT	TAAGGGGAAT	AATGCAGGGG	ATTTGGTTTA	TTCTGCTAGA
227581	CAACTGACGG	ACCTTATTAC	TGTACCAGAA	TATGGAAACA	ATCGCGATCT	TACCAAGCGT
227641	CAAGCTATCC	TTAAAATGCT	CATTTCTAAC	CCTGAAAATC	TAGAAAATGT	TGCAGATACC
227701	ATTTACCTTA	CAACAGGTAA	AAATGCTCTC	GCACCGGTAT	CTGCTCAGGA	AATGGCTTGT
227761	GCGTCTCTGA	CAGTCGGAGG	AAGTGGAGGA	GGAAAACGTG	CATCAGACGA	CAATGTTCAA
227821	TCCCTGAACC	GCCTTTATTT	TCGGGTCTAG	ACTAGTGTA	TATTGTATGT	TTAATTTATT
227881	GTGTAACAAT	TGGTTTATAT	TTGTATGTGA	TTTTTTCGGA	CAAATAAAAG	AATTGGAATA
227941	AAAGACTTTG	TATTATTTAC	CAAATTTATT	GATTTTTTTT	AAACACCTTT	TTATGCCACG
228001	GGGTTGATTG	TAGCATTTCC	TCCCCCTGGA	GATTTTCATAG	TGGGACATCC	AAAGAGTGTA
228061	ACTCCTAGTG	CTGATACACC	CAAACCTAGG	AGGAATCCGG	TAAGTGCAGG	AGTAACAGAA
228121	AGCATGAAAG	CGACCATGCT	CAATCGATG	ACGACAACGG	CCAAGCCGAC	GATGATGTTT
228181	CTGGTCATAT	CAGACATGAT	TTCTGGTATC	TGTTTATAGG	GTTTCACCCA	GAAGTGTTT
228241	AAACCCAAAA	GTATAAATTT	TATTCTATAC	TGCTCATCTC	ACTCTTCCGA	CCTCACAAAG
228301	GAGAAAAGAG	TCAGTCTTGC	TCCAGCCACC	ACCGAGGCAG	GAGCTCCTCG	GACGCTCCTG
228361	TATTTTTGTC	CAGAAATGGA	TAAAGTTTGT	GTTATATCAA	ATACTAGGGA	GCGCACGTTT
228421	AAGGTACCTG	CCGATCTACT	GTGCGTTGCA	ACAGAACCGG	AAATCTCTAC	CAAGGAAGAA
228481	GATGCAGGTA	TAGAAATCGA	GACAAGAGTG	GTGGTGTFTT	CAAGGTGCGT	CTCGGTCCAG
228541	GAACTACATA	CAATAAATCC	AAATGATGAA	GGATTTTCTG	TCCAACCTTT	CAAGGACTAC
228601	CTGAAAATTG	AATCTGCACA	AGGAAAAAAA	CCCATTGGTT	TGTACATCCA	AATAAAGGCT
228661	GGAGAGGATC	TTGAAAGGAG	ATTAATCAGT	GGAGGAACTG	CATACCTGGA	TCCGGCAACA
228721	CACCTTTTCT	ATCTTGATTT	CTCCCTTTAC	CCTAATTATT	CAATATTCAA	GATCATTTCA
228781	TCCCGTCTGA	AAATCATTGA	TGAAGACACG	TACAATGGTG	TTGTTTTCTC	TAACAGTGAA
228841	GAAAAAGAGA	AGGATGCACT	AGTGCTGATA	AGGGTGACTT	TTTCTACGCA	TGAAAAGGCA
228901	ATTGAAGCAG	CCATAAAAAA	AATAATGCTA	AGGAAAGTGT	TTTTCAAGGA	TGGAGATCTT
228961	GATTTCTGGT	ACTTACGTAT	ACCAAAATCT	AAACTGGACA	AATTTACTCC	CTATTTTTCG
229021	AGTCAATACG	GGATAGTAAA	TGTTGAAAAA	AATATCCCTG	GTTACATATG	GGGAGAAATT
229081	ATGAAGCAAC	GAGTGCGATG	TTCCAGATGG	TACCTTTTACA	ACACCGACTC	GGAATGGGAA
229141	TATAAAAAAT	TGGCCGAAGA	AAGAGTTGGA	CCTCGCCAGT	TAGTGAAAAA	ATATGGTGCC
229201	AAGTGTGAAA	ATTTATGTTT	TAGGGACATA	GACCTCAGAA	AAAAGGAAGC	AAAGGAAAAA
229261	AGGGATATAG	AAAGAGAAAC	TGAAAGCAGA	TATGTGGTCG	TAACACTAAC	CCATAAGCAT
229321	GAAATGCCAT	AAAATATGCC	CTATTTTGGG	CCAAAGTGTT	CAGTGGTGAG	GTTGGATGAA
229381	ACTAGAATAC	TTTTATGTTT	TGTGGATGAA	ATTTCTTATA	ATGATGAAGA	TGTAGACGAA
229441	ATTTTGTCTG	AGAATAGATC	ACTAAGAAAT	GTTTCTATTA	GACATAAGGA	AAATGTACCT
229501	GTACACACGT	TATTAAAAAA	AGGTGTGTCT	ATTCATGCTA	GATTTACCCT	TAATGGTTTG
229561	GATGATGCTT	TAATAATTTT	AAAGAGAATA	CCAAAAACTT	ATTTTGAAGA	TGAGGAACATA
229621	CAAGCCGCTT	GTGCGCATGT	TAACCTTGAA	CAGTACGAAT	GGCTTTGTTC	TAATAATAGA
229681	GGGAATAAAG	TAGAACATGT	AAAGTCGCGG	GTAGTGACTC	GAGCAGTTAA	GCGTAGGAGA
229741	AAATGTAGAC	ACTGGATTTA	TTTTGATAAA	GACACTTTAA	ATTTAAACTA	CAAATACTTT
229801	GATAAAAAAG	TTACTGCTAG	TATGGCATCT	AAAATATGTA	ATGCAAAACA	CGACTGTTTA
229861	GTTTTCCATA	GAAAAATGGA	ATTGGAAGAT	TTGACTGAGA	GCGCATATTT	CAAGGTAGAA
229921	CCTTCCCCAA	TAAATTTTGC	CAAGTTAAAA	TCTTGCCCGG	ATGTTAAATA	TGTGCAGAAA
229981	AAAACAGATG	GTACATTTTC	TGTTATAAGA	TTCTTTAGAA	ACATGACAAA	GGGTGATCTT
230041	ATTCAAAGGA	TGGATCTTTT	TTGTAGGTTT	ATTCCTGACT	CACACACTAT	TACACTTTTG
230101	AGTAGGGCGG	ATTTTTATGC	ATGTAAAAGA	GGAGAATCTA	TGCATATGTG	CACAAACAAA
230161	CACCGTATTC	TTCACTACAA	ATTCTCCAAC	GCTCCCCATG	CGGCCATCGA	ACAAATAACC
230221	AATATCATCA	GTGATACAAG	AGGACGTAAG	GGTATACACA	TAGAATACGC	GATCGAAAAA
230281	GTACAAGAAA	TGTACGAAGA	AGATGGAAGA	AGATATGAAG	CTAAATACAC	TGGAACCTTA
230341	ACCGAGTACA	AAAGAAATGA	GGACAAAACC	TTCAAATCTC	TTCTTGCTCC	TCATTTAACA
230401	CCTGTCAACA	AACCATATAA	TATTAACCAT	TTGTATGAGC	AATATGGAAA	TTTTGATGAA
230461	GAATTAGAAG	ACAAGTTGAG	GAGTGGTTTC	ATTTCTTATG	ACACGTATGT	TACTGCAAAA
230521	GACAACCTGG	GCAGGTGTGC	AACTGGAAAG	GGGGCGTGCA	TCTAGGACCC	ATAACTCAAA
230581	GTCAATACTG	GTATGTGTTT	TTTGAGAAGG	TGTCAGAATG	TGCACATTAA	AAACATACAA
230641	AATGACTACT	TCAACAGAAA	TATCAAAGAA	CCTTTTCAGAT	GTGTTATCCA	TCAAGGCAAC
230701	TGGAGATTGG	TGCAGTAATA	TCAAGACGGT	ATTTTCACCC	TTCACAGAAG	GCAAGGGAAA

230761 TTTACCAAAC AGTCTCCCGT TTACGAGAAG TCCCAATACA ACATGTGGTT CAAGAGAGGC
230821 GGCAAACGCC ACAGAGCATT TTATCACCGT CTTTGCAAAG GACAAATATG AGCGGAAAAG
230881 AGTAAAACGT ACAATCGGAT TCACCCTCGA CAACACAAAG GAGTTGACGC CCAACAGATA
230941 CTTGGTAGCA GATGTATACT CTTGGCAAGA AGAGAAAATG GTGTTTGAAG GATTTTGTGT
231001 CCCACCAGGA AAGTCGGGAA CATTGTGACG CTACTCTAAT GAAGATAAAA GTTTTCTACT
231061 AGCAGATACC GGAAGATATA TGAAAAAGAA GTACGATGAT CCAGAAAATA AGACCAGTAG
231121 TGGGGGTGAT GATGACGATG ACGACGATGA TGATGATGAC GACAACAACA ATGTTGACGT
231181 GTATGAAGAA AACGACCCCA GAAATGTATT CGAGGTCGAA AAGGATGAAA AATATGCCTG
231241 TACTTTTTCA ATTTTGGTCT ATAGAGCAAT GAAAAAGTCT CCTCCTGTAT GTAGAGGGTT
231301 ATTAGTAGAG ACAGATGGAC CCTCATCTCA CCCTAAACGG GCCCCGTCAG CATTTAATCC
231361 ATTCGGAGGA AGTTCATGTG TGAACGGTTA TGGTGCAGGT GCAGATGCAC TAGAAGAAGA
231421 GGATGAAGTT GATGGAGTTC CTGAAAGAGA GAGGATTACA AATTTTGCTC TCAAGAGAGG
231481 ACCTGCAACT GGCCAGAACT TTGTATCTGT TAAACTGGAA CATGATGGAT CTAAAGCAGA
231541 CCTGTACAAC GTCACGTGCT TCTCCAAGCA GCGTGGAGTA TAAAAGGCGG GACGCATCAG
231601 CAAATGCAAC TCATTCTTTC TCATCATCTA ACCATGGCTG GTCGTGTAGA GCTCGTCACT
231661 GGACCCATGT TTGCGGGCAA GTCTACCTAC CTGAAAAACA TATACCAACA AGAAAAATGA
231721 GGCAATAAAC ATTGCCTGTT TGTCAAACAC TCCCTAGAAA CTAGGTACGG TTGTGGAAC
231781 GGAACAATAG TCACTCATGC CGGAGAAGTG ATTGAAGGTT GTACTACAGT TTCTTCTATC
231841 AAGGAACATA TCAGTGTGTT ACCAGAAGTT GTGGATGTGA TTCTCATTGA CGAAGGGCAA
231901 TTCTTCACGG ATTTGGTGCT AGTCAATAGA CTGGCTGACA AGGGGAAAAG GATTGTGATT
231961 GCAGCACTTG ATGGAACCTC TGACCAGCAA ATGTTTCAGT CTATTCATAA GCTATTGCCT
232021 TATACAAATT CCATTGTATA GCTAGCATCT AAATGTATGA TTTGTAAAT TGATACCAAA
232081 GAAGCTCCTT TTAAGTAAAG GTTTGGTAAT GACAATGATA ATAATGTTAT ATGTGTAGGA
232141 GGAGCTGAAA TGTACGCTGC TGCCTGCCGG GACTGTTACA AAAAAATTAA CAAGAAAAAG
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232321 GACAGGAGCA GCCATACGGG TAAACTCATC AATGATTATT TAACTAAGAA AATTGAACATA
232381 GATGATCATG CAGCTCACTT GTTATTTTCT GCAATAGAT GGGAAAGTTT TAGTAAAATT
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232681 TTCCTAGACC TCGCAAATAA GGACGAAAAG AATGTATGGA TTAAGGTAGA CGCTCGCGGC
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232801 AGAATTGTAA ACTGTTTCCA TGAATGTTT CTTTCTAGT GATTTTCACA TGTACCTAG
232861 AAAGACTTTG CCCGACACTG AAAATGGTTA TTTTGTCTTG GACGAGTCTC TTCTGGAGAA
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232981 ATGCAAGTCA AAATACATCT TCCATCACGA TGATCCAGAG AGGTTCTTTT ATAGTGTGTT
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233101 TTTAGGACCG TGGGAGTTTT TATCGCGCAA ACAAGTGAAC CTCCAACACG GGTGCTACAA
233161 AGCTCTTTTG TCATTGCCAG AGGACAAATA TTGTAACCTA TTATTACCCC AGCAAATGAA
233221 AACCAACCTG GAAAAAATGG AAGAAATACA GCGTACTAGA CTCATTCACT CTAGAACGTA
233281 CAATACACCC CAGATAGAAT TGTCTGACCA GCTAGATGGA TGTGTTATAT GTTAACACTT
233341 TTTTCAGTACC ATGTAATATT TTTGATATCA AATTGAAAGG AAAATGGTTC AGAAATTTGGT
233401 AGTAAAAACT TTATTGTTTC TTTCTCTTT CTTTGTCTG TCACTTTATT CGTCAGACAT
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233641 GTCTGCACCC ATGGCGTTGC TGTCTGTCTT CTGTGCACT GCTACTGCTG CTACATCAAC
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233821 CATTCCTAC AAGCACTGTG TCTTTGGACA CGGGGATCAA TATCTTGGAT TTTGGATGAA
233881 TGTTCTGAC CCTCATATCT TCTTCATTTT CAAATACGAG GAGGGATGTT TTCTCAGTAT
233941 TCCTGTTGTG TATTTGGAGG TGAACAGGGA AGGAGAATAG TTGATTGTTT TGTGTTGTTA
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234121 GGTTACACAT CTTTCCACTG GTGGGAGAGG AAGTATTATG GTTCAATATT GATGGAGGAT
234181 GGATTTTTTAT ACCCTCATGC GAATGCGATG TGGAAAATTT TATATGTTTC CGACAAGGGG
234241 AAAAAATATGA ATAAACTGAG CATACACATG TCGTATCCAG ATATCTAGGT CGGGAAGAAT
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237961 CCTAAACACA AACCTGAAAA CAAAAGGTG GAAGAAGAAC TAGCAAAAAG GACAGCAGAA
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238081	GAGGCCATAA	AGAAAAAGGA	AGAAGAACTA	GCAAAAAGGA	CAGCAGAAAT	TGAAGAGGCC
238141	ATGAAGAAAA	AGGAAGAAGA	AGAAGCTCTA	AAATATAATA	AAATAATTGA	AAAGGGAAAA
238201	AGACGACTGA	ATGAAGAATG	TGTCAAGCTG	AGAGATATTT	CAACTGCAGC	CATAAACATG
238261	TACAAAGAGA	AAGTGAGAAT	TAATGGTGTG	TTACTAAAAG	ATTCCGATCA	GGAGTTGGCT
238321	GAGGCGAAAG	AGAGGTTGAG	GAAAATTTTA	TTGCTAGAAG	AAGAAACAAA	ACTTGACAGA
238381	TTTTTGTTTA	GACCGAAACG	AGTAGAAGAA	CGTATATTCC	TAATAAAGA	TGATGAAACG
238441	TTAGCCTTCA	AGTTAGCCCT	AGAAAAGAAA	ACGGAGGACA	TAATTGCGAA	GAAAAACAAC
238501	CAAAAAGGCA	GTGAAAGAAG	AGATGGAGAA	TATACTATAA	CTTCTCATAT	TGAGAAACTA
238561	CCTCAATCCA	CTGCTTTGGC	TAGTGTGTGT	GTGTTAAACG	AATAAATAAA	AGTATAAAAT
238621	GTAAATAATAT	TGTTTTAATA	TCATTAATAT	TTTACCACAA	TGTCTACTTG	TTCGAATTG
238681	TTGTCAAGTAT	TTGGTGGAGG	AGATTGGACA	ACAACATTCC	CATTTCGACCT	CGTCCATACA
238741	CGTCAAGAGT	GTGATAAAAA	GAGAGAGCAA	GACTACTCAT	TTTTTCATTAC	TGAAACGTGT
238801	AAAGGAGAGA	ATATTGGTAT	ACATTCTGTAT	GAACACACGT	CAAAGATTAT	TGACACGGGT
238861	AATAATGATT	CTACCTCAAT	AGAGGAACTA	GAAGTACTGA	ATATATACAA	AGCTATAAAC
238921	CATTTAGAAA	ATATCCTAAA	ACTCAACAAA	GGAGAAAAAA	TTATACTGAT	GGATGTAGAA
238981	ACAATGATAC	TGGAAACTCA	TAAAATTTTA	ATGAAAGGGA	TTCTTCCCAA	GGGTAAAAAT
239041	GGAAGTTTCA	GTACATGCGT	ACGCTTTGCT	GTAATAAAGA	ACAATGAACG	GCATTACTAC
239101	CCTGTATTTG	AAACAGAGAA	AGAAGCGTTC	AATTCTATAC	AAAATCTAGT	AGATTATTAT
239161	AATGAAATTG	TAGCTCACAC	CAATGACCAA	ATTAATAATA	TAAAAGCGTG	CGCATATTTT
239221	ATGTACAAGT	TTCTAACTCT	CCACCCTTTC	AATGATGGTA	ATGGAAGAAC	AGCTAGATTA
239281	TTGTATAGTT	TTCTATTGAA	AGGTAATGGT	ATCGTACCTC	ATTTTTTACC	CATAACACAC
239341	CCTAGGGATC	AATTTGTTGA	TACTTTAGTG	TATTTTAGAG	AACATGGAGA	TGGACGACCT
239401	TTATTGTATG	TTTTGCTGGA	ATCAATAAAA	AATAAGTAAA	ATTCATTTTG	AGGCATTTAT
239461	TTCTTCATCA	ATTCATATGG	CATCTTGCCA	GTTTTCTGTA	TTGTTATCTC	AGCAATAATG
239521	CGTAACACAT	CAGCAGATGT	GCAGATTTTA	TCCCCTTCCC	CATCCCTCAT	GGTATTTCCCT
239581	CCTGCAAAGT	AATGGAGGAA	AGAATCTCCA	GTAATGGGGT	TAGTTACATT	CAATACAGCA
239641	AAGAATTGGC	CAATATCTTT	GTCGGCCAAC	TTGTACAAAA	GCTCCTTGGT	CATGACTTCA
239701	CTCATAATGA	TAGATTTTCC	AGTGGTGTCA	CAAATGGGGG	ATTTATCAAA	CGGCATGGCG
239761	GGGTAATTGG	GGTGGAAATG	GTTGGAGAAT	AACACCAGGT	CGCCGAGGAG	GGCAAACCTC
239821	CCGTGCTTGT	AAAGCTCCTT	CCACAGGGGC	GATTTCGTCT	GCTTGTAGTT	GCAATGAAGT
239881	AGGACAGGGA	ATCGCCTGAG	TACGTGGGAC	AGCACTTTGA	AGCTCATCTT	TCGTCCGAA
239941	GAAGAAGACA	GTACACTCTC	TCCAACATCG	GTGACAATAT	TCTTCCCTCC	CGACTTGTTT
240001	TTGTACAATG	GAGACTCGCA	ATCGGTGAAC	ATGGCGTCGG	TAGGGAGGAG	CATGGTTTGC
240061	ATGAACATGC	TGTCCGCGTT	GAAAAAGTCC	TGCTCGGCAA	TGGAGAATAT	GTTTTCCAAT
240121	TTGCTTATAA	GTGAGTCCAT	TGCTGCTGCT	TGCTGCTTGC	TGCTGTTAGG	CGTCCAGAAA
240181	GCGTGTGTTA	ATTTCTCGGC	GGAGGACTGT	TCTTATATAC	AAATTCGTTA	AAGGGTGACG
240241	CCCACAGATA	AGAATGTGGT	TAGACTTGAA	TCTATTTGAA	ACCATGACAA	GGCATTTTCT
240301	TTTGTAAGGG	GTGAATAAGG	ACTAGACTCC	TCTACCAGAA	TTCATGTGCG	TCATTGCAAG
240361	CAAAAACCTC	CTCTTGTTCC	AAGAATTGGC	TAGTGGGCGG	CTGCATGCCA	CTGTGTATGA
240421	CATCATTTCC	TTATGTGCAA	TGGATAATTA	TAATTTGTAA	TATTTGAAGT	CGTCGGGTCC
240481	GGTCCACCCA	GAAAGGGGGC	GAATACACAT	AACATTTCTG	GGGGTGTATT	TAGTGCATTA
240541	TATCTGGCAT	CCAGAAACGG	ATGCAAGCAG	TATCTGAAAC	TCTCTCTCAC	TTTTGACATC
240601	AATGAAAAAT	TGGACATCAA	CACGCATTGG	TGTGGTGGAT	AAAAGGGGGC	AACCGGCTAT
240661	GACTAACAAG	CATTTCTGTC	CTAACCTGCA	GCCAAGCAAC	AGCATATTAC	ACAATGGAGG
240721	ACCTAAAATC	CACATCTGAG	AGAGTATATG	AAGAAAGAGT	GGAGAATCTA	GAACAATGGA
240781	CAAATACTGT	AGAGGAAGAA	GAAAGGACTG	TCTCAGCAAT	CGATTCTGTC	CTGGAGGAAC
240841	AAAAAAGGGC	CCTGGACGCA	TGGGAAGCAG	CGATAAAGGA	ACGAGAAAAC	GACCTCGCAG
240901	TAAAAGAAGG	GATATCTGCA	CTCGTTTTCA	ACGCAGCAGA	CGCCAAAACA	CGTAAAGAAT
240961	TGATAAATAC	GTGGATAGCC	GAAAGGGAAA	CGTCAGAAAA	AAGAAGAAAG	GAAGCAACCT
241021	CTACCAATAA	TCAACTGAAG	AACCAGATGT	CATCTCTAGT	CAACACAACC	AAAACACTCA
241081	AAGAAAAGTA	CAACAAATAT	TACAGAAGAA	GTGCCATACT	CAACATGCAA	TACATCAATA
241141	ACAAAAGGGA	TTATGAAGCA	AGTCAATTTT	GGGTGTATAC	AAACAATGCA	TAAGTTTTCA
241201	AATAAATTTT	ATTTTATAAT	AAAAGGTGTT	TTAATTATAA	TTTTTGTCCC	TGATGTTGTG
241261	TTTTCTATAT	TTTTACTGCC	TCCTCTTGGG	GTAAGACATA	AAAACGGTGG	CGGCGGAAAC
241321	GAGGAACAGA	AGAGCGGACC	CAGCCAGAAG	CATCATATCC	CTGGTCCTGT	TCTTATATTT
241381	GTCCTCATCA	TCGTTATCGT	TGGCAGTGTC	GTCATCATCA	TCGGTGTCTT	TATCAGTGTC
241441	AGGATCGCTG	TCCTTCTTTG	GTCCCATCCA	TACATTCTAT	ACGGCCAGGA	CGAGGATACC
241501	AATTGAGATA	GCAACGATCA	AAAAGAGACC	CATGCGAGCC	ATAGCATATG	AGCCTTCAAG
241561	ATCTTCCATG	GTGTAAGAAG	GGCCAGCGGC	CTGGGCTCCG	GTCCTGCCGA	AAGGAAGAGT
241621	GTTAGTCGTG	GTGGCCATTT	TTTTTCTGTT	TGATGAAGAG	GTACGTCAAT	GTAACGTAAA
241681	GACCTGTTGT	TTTATCGTGT	ACGGTTTTTG	TCAGGACACC	TTACGAACCT	ATTTGTCTTT

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241741	TTAGACTTAC	TCAGCGTTAG	TTGTCGCAGT	TGGTCATGTT	CCGTCAATTC	TGTTCACTAT
241801	ATCTTCTTCA	ACGCCGGGTT	AACGACAATC	TTAGATCCAC	GGCGTCCGCT	TCGGCAGCGG
241861	CCTCATTA	AGGAGATGGA	ACTGAATTTA	TAACCGGAGA	ACCACCTTCT	CATAAAATGA
241921	GGGGACCTTC	TTATAGCGTT	TTAGGACCTG	ATCCGTGCGA	GGACCCAGAA	AGGGTATATG
241981	TTGATATTGT	AGTGTCTATT	TTGCAGACAA	ATAATATACA	GGTAACAAAA	GAATGGGAAT
242041	TGTTTTCCGA	TAAGTTGAGA	AAATTGGGTC	CATGGATTGA	TAGGAGCGGA	ATTGAGAATA
242101	ATGGCGAAGG	AGAAGAAGAT	GGAGATGAAA	ATGAAGACGG	GGGTGGAAT	GGGGGAAGAA
242161	TTGAAGACAG	AGAAGCACAT	CGACGAAAAA	TGATGAAGAA	ATTGTCCTTT	GTTGGAAGAG
242221	AAGATCCAGT	CGCTGTAGAT	TTACCCACGT	GGCGAGAAAA	CAGTACAGAA	TTTGCACGTC
242281	GTTTAACACT	CAAGGAATTG	TGCGATTAA	TAGTTGAATG	TGGATGCATC	AAATCAAAAG
242341	AGGAACCTTT	TGACTTCATT	TTTGAAGAAG	CGTGGGAGAT	TAAAGAGGCT	GCTGACGTTA
242401	GGGGTATGGC	AAACAGGAGT	AAATTCACCA	AGGAATCATT	AATTGACTGG	TTTTTTGAGT
242461	TCGACACATA	TAGTAAATGT	GTAGTATTTT	TTGAAGCAGT	CAACTGGTAC	TTGAAATCTC
242521	AAGCGTCTCC	AATTTTCATTG	GTAAGTAGATG	ATATATATTG	TTGTGTCTTT	TCCTACATAA
242581	GACGCCAAAC	CTTTTTAACT	AGGGCAAAAA	ACCCATCTTT	AACAGTGGCT	TCATCCTTTT
242641	CTCCCACGCC	CGACACAAAG	CTTTTGGCTA	TCGACGAGTG	CGTGCAACAC	TTTTTAAAT
242701	CAGACATTAA	TATTAGCCAG	ATGGCATTAA	CTGAAAGGGA	CTGCTCTTTC	CCTCTTTTAA
242761	CTGAAATGCC	CCGCCAACAA	AAAAAAGTAA	ACACCTTCCT	GGACACAATG	AAGAGACCTA
242821	CCTTATCTCT	TCTACCTTCC	ACCTCCTCCT	CCTCTTCTTC	CAACAACAAG	AGAAAGAGAA
242881	ATACTGCCCG	TGCCAATATT	CTTCTTCCAG	TGTACAGGAG	TAACCTTTCT	ACAGCATCCA
242941	ATAACAAGAG	ACTGAAAAGT	GATGATGGGG	AAAATGCATC	AGCCTGTATT	CTTATCGAAG
243001	GGTATGCGAA	TGGAAAAATA	AGCCCTATAA	GGATTATGGT	AAGAAAAATCA	ACTATTATTC
243061	CAGAAAGTGT	TAACCATCTT	TTGTTCCCTG	TCTTTGCCTC	TAAAGACACT	GGTGCGAATA
243121	TCTTATTTTT	TATCAAAATG	AAATCCTTTG	CAAGTGCATC	TTTACTCCTC	CCTGGACTTT
243181	TTAGACACCC	CAAACAATTT	CTCAACGGGC	CGTGCAAATG	GATGACTCTA	GCAGAAAACA
243241	ACATCAACGA	CAACAACATA	AACTCTTCCA	CGATGTGGAG	TTACACGCTA	GCAGATTATT
243301	GTCCTCTGGG	CTATTACACC	CAAGAGAGCC	CTCAACCCTA	TCAGACATGC	GGCAATTTTA
243361	CTTCGACTAC	AAACAAGAGA	CTACAAAACG	TGCAGCCATT	ATACTTTTAA	ACACTCTTTT
243421	GGAAACTAC	AGGACACCTT	CAGAAGAGTG	GGAAATTCCT	TTTAACTCTC	TGCTTAATGT
243481	GATGAATAAC	AAGTGGAGTA	CACCTATTC	AGGTGTCAAA	ATAAGTGCAG	GTATCATATC
243541	GAAACTCCCA	TGGACCATGA	AAACAATGTA	CGAGATTGTT	TCTTCGCCCA	ATAATAATAA
243601	TAACAACGGA	GACTACTATT	CTACATGCAG	GCGAATGGTA	ATGGAATATC	CTATCGGGGG
243661	TTTATTGCAC	ACGCCTGCCA	TAACTAATAA	GTATCCACGC	TCCAGAATGG	TCACCTGTAC
243721	AAAGGGCAAA	GACCACCAGA	AGCTATATGA	CATCTCTAGA	CAAATGTTTG	ATATAATAGA
243781	AGCAAATGGA	CAACTCTGAT	TATTATTATT	ACGGTTACGA	AAATTCCTCA	AAGACTAAAA
243841	AATTCAATAC	TGCACTGATG	ATTGGGTTCA	TTTTATTTAT	TTTATTAATC	ATCGGAATTT
243901	GGGGTTTATT	TAGATCTCGA	AATGCAACCA	CCCAAGAGAG	CAAACTTCT	TCCCCAACAA
243961	TCTCCTCGAC	CCCAACTACA	TATTCTGGCA	GCTCAACCAG	CAGGGGTCCA	GGTTCTGGAT
244021	CTGGAAAACA	ACCCAAAGAT	GACACATCCG	TTGAAGGAAT	AGACCCTGGC	TTACTGTAAAC
244081	AGAAAAGAGA	GTAAAAGGCG	ACAGCTCGCT	TGCCAATTGT	CCTGTTACGT	ACTCTGTGGT
244141	TTCACGAGGT	TGTCATCACC	AAAGGTAACC	TTTTTTTTTG	TCCTCGCCGA	CAAAACGACA
244201	TCTTAATAAC	CAAGCAACGT	TCGATAAAGA	AAAAAACTCG	TCATGGATCT	TTCTTTCACT
244261	CTTTCGGTCG	TGTCGGCCAT	CCTCGCCATC	ACTGCTGTGA	TTGCTGTATT	TATTGTGATT
244321	TTTAGGTATC	ACAACACTGT	GACCAAGACC	ATCGAAACCC	ACACAGACAA	TATCGAGACA
244381	AACATGGATG	AAAACCTCCG	CATTCTCTGT	ACTGCTGAGG	TTGGATCAGG	CTACTTCAAG
244441	ATGACTGATG	TGTCCTTTGA	CAGCGACACC	TTGGGCAAAA	TCAAGATCCG	CAATGGAAAG
244501	TCTGATGCAC	AGATGAAGGA	AGAAGATGCG	GATCTTGTC	TCACTCCCGT	GGAGGGCCGA
244561	GCACTCGAAG	TGACTGTGGG	GCAGAATCTC	ACCTTTGAGG	GAACATTCAA	GGTGTGGAAC
244621	AACACATCAA	GAAAGATCAA	CATCACTGGT	ATGCAGATGG	TGCCAAAGAT	TAACCCATCA
244681	AAGGCCTTTG	TCGGTAGCTC	CAACACCTCC	TCCTTCACCC	CCGTCTCTAT	TGATGAGGAT
244741	GAAGTTGGCA	CCTTTGTGTG	TGGTACCACC	TTTGGCGCAC	CAATTGCAGC	TACCGCCGGT
244801	GGAAATCTTT	TCGACATGTA	CGTGCACGTC	ACCTACTCTG	GCACTGAGAC	CGAGTAAATA
244861	AATCGTGCTT	TTTTATATAG	ATAGGGAATT	TTAATATTAC	AACAATAAGA	AAATAAAACA
244921	ATTGAGGAAA	TTTATACCAT	ATTTTATTGA	CCTACTTAAC	CTTCTTGCTA	TACAATGAAT
244981	GTTTAGGTGA	CTGGAAAAGT	TTAGCAATAT	TATCCTTGAA	CGGGAAACAT	GCACCAATTA
245041	CAGGCGCAAT	TTCATACGCT	CTCGGCCTAT	TGGTCTTTTC	CTGGTCATAC	ATTTTAGATA
245101	CAATGACAAA	AAATGGAATG	TTTGTATAGA	TAGAATTGGC	AGACAATCT	GCAGTTCTCT
245161	TAATCAAAAT	GGACAACATG	TCTATTAAACA	AAATAAGCCAA	CCCAAAAGTC	ATGGCAGTTT
245221	CTGAACACAA	CTCACTGTTA	ATAAATTCAG	GAGCTGTATG	AGGATGGTTA	CTAAAGAACC
245281	TCTCATCAGT	TCCCCAACAT	TTAAAATTGT	AGTACTTTTT	ACATGGTACA	ATTAAACCAA
245341	AATCAATCAT	CTTAGGTTGA	CCAGTTATTC	CATCAATTAC	TATATTGTCA	CTTTTTATGT

245401 CCGGATTAC TAATCCTTGT TGAGACAACC GAGTGACAAT ATTTACAATT TCTACCAAAA
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245521 TTGAATCCGT AATGGGTTC TTGCATTTAG ATTGTAGACC TTCAGGCAGG CGGCCAGTAG
245581 CTTGAAGCAT CCTAACACCG TACAGAGTAT CCCTCATCCT ACACAAGCTG CCATGATCTT
245641 GCATGAGCTC AGCGGCTGGC TTGGAGGAAG TAGTCGAGGG GTTAGGTTGC TGTACAACAT
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245821 TTCTTCCCTC AAGAGCGTGA CTAAAAACAG TTTCAAATAC AAATTCACAG TACATTTCTT
245881 TGTCCGTCAT AAACCTTGATA ACTTTTCCAG TTTCAAGCAT GTAATATACC CCGACTTTAA
245941 CTTGAGATA TAATTCAGAT GGTCCAATCA TTACGACTTG AGAAGCATAT TCTGGTTGGA
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246181 TCTTGCATAA CCTGTTCCAG TTCAAGAGAG GGCTAGTGTC TAAAACGGAT AGGTTTTTAC
246241 TACCAAACCC AACAGGCCAC CAAGATGAAG GGGGTTGTTT AGTACGGTTG TTAGACCACA
246301 AAAACTTGGA CGCTTTTTTCC TTTGCGTCAA TACAGCTCTG TTTTATGGTC TCGTAGTTGG
246361 ACGACACATC TTGCACGTCA GAAATGAGGC CTAATTTTGC GGCCTGTCTA ATCAAATGGA
246421 ACGGAGATTG TAGACCGGCT GCAATATTGG TATCAGCCTC TGCCACTGCA AAGTAACACG
246481 GGGGTTTTTC TAGCTTGACC CACTTGTC AAAGATTTCA AGTGTGTTGG CCCCTTGACA TGGGAACGGA
246541 TTTTACATC GGTATCACA GAAGATTCTT TCAAATTGAC AGTAGAGAA TTTGCACAA
246601 GGACAGACAG TGGAGTATAG TCTCTAGCCT TGTCGGCATT GCGCGGCTGC TTCTCTCAAC
246661 TTGGATGAGA GAATCTTTTT CTGTACTGGG GCTTCTTGAT AATGTCTGTC GCATACGTTG
246721 CAGACGCGGC ACTAACAGAA GGCAATTGCT GCTTCTTGAT AATGTCTGTC GCATACGTTG
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246961 GAGAATCTGA GGGAGGGGAT CGGCGAGTAG CGTTTTTGA GCAACAAGAT TTCACAGCTA
247021 TGGCTGAAGG TATCTTGAAT TGCCCTCCTC CTTCTCCTCC TTCTCCTTCT CCTGGCGTTT
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248461 GTGTTTGGAC ACGTAAGCCT TGACGATCTT CCTCCATGTC CTTATAAAGT GTATGACTGA
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248821 GACTGCAGTC CTCAGAAACG TATCACTTTT CCCACTTCTT TCTTTCTTCG TGTCAGAAG
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265081 TGGATCGTCC TCTTTTGCTT AAGATTTTGT GTGTAACCCT TATCGTTACG ATTGTTACAA
265141 TATGTCTTAT GGCATTTTTT ATACATAGCA ATTCCTCATC TTCTTCAGGC GCCACTGCCG
265201 CCGCTA^ΔCCGT TGCAGCGGCA GGAGGGATAT CTTCATCTGC TTTATTTGGT ACCTACATAG
265261 GGTCCCTGGT GCAGTCAGAA TTTTTTTCAG AAGATATCGA TTTACCAGAA AAACAAAAGA
265321 AAAAGGCTGA TAAGGAAAAG GCATCAAAA CCGATAACAA TAACAACAAC AACAAGCGTC
265381 AACGCCGCCA GACAAGGAAG CAGAGCCCCG CGCCAGAAA CAGGACTTTA AGAAGGAAGA
265441 GGAAATTATC CAAAAGAAAA ATACACGTCA AGAGAAAAGAA GACTCTAATT AATCGGCGCA
265501 GTCTCAGAGG AGGAAGAGGA TTAAAGCGAG CATCTAGAGG CAAAGGACTG CTTAGAGGGA
265561 TTGGAAAAAG GACATTTGGA TTGTTTTTCC TCCCCTTTTA GAAAGGATGT TTTCTTTAAT
265621 TATCATGTTG ATTATATTAG CCCCATTAAT ATTTGTTGGG GTGAATTTCT TCGTATACAT
265681 AAAGAAGAAT AACTGGTTCT CTGGGGCCAT TAGTAATGAC ACTACTATTA ACTCCACAAA
265741 TTCTGGAGGA GTAGGAGGAT TATGGGATAA TGTTTCTGAT TCAGAGTCAG GGACGTTTCC
265801 ATCTAGGGTA CAATATTCCA CATCAACGAA AAATTTAGTC AATATAGCCA TGGATGGAGA
265861 TTATGCGACA TTAGTAAGGA ACGGAATGTC CACAAATCAA AGGCCATATG AAACCTACAA
265921 AGACGTGGAG GATAGCCAGT TCTATTTTCA TTTTTCAC GTTAGAAATT TTAAACCTTT
265981 AAACGGTGAT GAAAATAAAG ACCACTTGA AAGGGATGAA AGTTTGTGT TGATCGAATC
266041 ACCATATTAT AATGGAGGGT TTTTATCATA CAATATCAAC AACCAATC CCATTACAA
266101 TTCTACTGAA AAGCCGTATA TTAACACGGA GATAACTTCC ATCGTCAGCA CCACTGTAC
266161 AGATGAAAGG TTCTTCTGCC TCGAGAAGGA ATACGTCGAA GATGGTGAAG AAGGAGTTAC
266221 AGAAAAATAG TACTTTTAC GCCACATGGC AAGTAATTAT GTTGTAAGG CTAGTTTCAA
266281 ATCAGTCATG CCCACTATTG AAATTAGTGA TCTGACTGGC ACATACAATA ATAAGAATAG
266341 TGTTAA^ΔATT AAGCCTGTAA CTGGTACTTC TATAATTTAT TGTTTATTT CTTCTAA^ΔAT TTTATTTTAG
266401 ATAA^ΔATACA TTTTAAAGTA TTATGTTTAT GGGGTTTTT CTTACCCCTC TTTGGTTTTT
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266521 GGTTAGTTTT CTGGCCCCA CCATCTGGTG TTTTGGTCC TCCTTTCCCTT TTTCTTTTC
266581 CAAAGGCTTT CTTGAATGCA CCGCCCACTC CTGGTATTGA TCCCAGCGCA GAAGCGATCG
266641 TGCCGGCCAG TGCTGTGCCC GCCAGGAGAG ATGCTAAGAG AGGAGCCTTG ATTATTATTA
266701 CAGCAATAAC AATGACAATT ATTGTTATTA AAAGTAAACC AAAAAGTATA TTTTTCCTC
266761 CTCCTAAAGA CGCCACCAAT GGCGAAGCCA TCTTGGCTAT CTTATTGTTA TTATTGTTAT
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266881 GAAACATATA AATTTTGGCT CAAGGCACCT TCAAGGCTGT GAAAATATTA CATGCAGATA
266941 ATGTTGATTC TGAATTCAGG GTTGTGATTT TTGGTCGCAC GTTTACTGAC GTCCAACATA
267001 GGCATATGGA TAGTACAAAT TGTCTTGAAT TCCTCATCTT CTTTGTCTC TGTACCATCC
267061 TGGGGTTTTG CTGGGAACAA TGTCCTATAT GTTCCCTTTT TTATATAGTA ATTATTCGGG
267121 TTTGAATACA AGTAGTTATG GAAATGGAGA TGCGAACCAC TAAAAGCTTG TATATTTATC
267181 AAAAAATTCA AGTCAACTTT CTCGTCATCC ACTCTTCTCA TTTT^ΔAGGGT AATATCTCTC
267241 CCGTTAATGA CGTAGATAAT TGTTGCATTC AAAGCACTGA TGTGCTTTTC ATGATATTCG
267301 TTTAAACAA TTTTATAATG ATTTTAAAG GGATAACTAT AAAGAGACC TTCTTCTAAT

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267421	ACGATATTTA	CTGATGGTCC	TGCTACTACC	TTTAAAGTCA	TGATTGTGAA	CCCTCTCAAA
267481	AGAGCTATCC	ATTTTTTTTC	ATCCGTAAAA	GTATCGTCAA	CCCTCCGCTT	CCGCTTACCC
267541	CTCCTCCACT	CCCTCCTCCT	CCTCCTCCTC	CCCCAGTCTT	CTGCCCTTTA	TTATCGCTTC
267601	CACCTAAAGA	TCTTCTTCCA	CCATTATTCTG	AAAATACAAA	AAAACCTACT	GCAACAAGAG
267661	CAGCTATTAT	CAGAAAAATC	ACCAGGATCA	AAACAGGGGC	ATTCGTATTA	GACATTCTTG
267721	CTACATGGTA	TTGGAAAATT	TTCCACCCTT	TAATACATAA	AAATTTGGTT	ACAAATAGTT
267781	AAAAATATGT	AACCATGCAG	TACAATAAAA	GGTGATCAAC	TGGTTTTTCA	TTTCTATATC
267841	GTAATGAAAA	TTTTGCATTA	CGCGTATTCT	TTGTAACAT	ATCGGAATAT	ACTTCATCCC
267901	ATACAGCAGA	TGAACCTCTT	TTTTCAGGCT	TAATTGCGAT	ATCCTTTTCA	GATTCCATTT
267961	CGTGGAAGAT	CTTTACAAAG	CAAGATTTAT	CCGTTTGATT	ATTGAACAAA	AAATCGAGCC
268021	GTTTTTTCCC	ATTATCTACT	TCAAATTTCT	CAATTGTTAG	AGAAAAATCC	CTCTTCCAGA
268081	CTACAATATC	TTGGGCCTTA	GCCAGTGTTT	TGATTAGCCC	GTGATTTATT	TTTCTTCCCA
268141	TAGAAGGAGA	TAAATTGTAG	CTGGTTTCAT	ACCTCCCTTG	GTCATCACAT	TTTACTCTAA
268201	AAATTGCCAC	TGTAAATCA	CTCATGTGAA	GATTTTCAAT	CAATTGAGGA	ATTCTCTTCC
268261	CTATATCAAT	TTCAACGCTA	GCTGGCGTTT	TTAGTACGTC	CCATGCAAAC	GCATTGAGGC
268321	TCTTGTTCCG	TACAAAAAAA	GTTAATGCCG	ATTCGGATC	AGGGAAAACA	TCCGCAGCCA
268381	CCTCAGTTAC	CCAGGCACTA	ATGTTGTCTT	CAGACATTGG	TAAAGTTGCT	GCTGCTTTTT
268441	CATTTATTAG	TGCTCTAATT	TTCCCTCTGT	TGCCCTGCAT	TTTATTATTG	AATACAGTCT
268501	CTCCGTAGGG	TTTAATATGT	CCTCCATACA	AATCTACCCC	AGCCATGGAA	GCAGTTGCAG
268561	TATCTGACGA	CCTCGTGTCC	AAAACATTTG	TCACCCTAGA	GGAAATTTCC	CCATCTTTAA
268621	ATAGTTCTGC	AAGTCTCGCC	TCCATTATTA	TTATTTTAA	TGTGTACAAT	AAAAACAATT
268681	AATTGAAAC	AAAAGGTAAT	AACAAAATAA	AATACATAAG	AAAGATTCAA	AAAGTTTTAT
268741	TCATTATCCT	TATCACACAC	ATATTTTTTG	ACGGACAAGT	ACATTAACAT	TATCAACATT
268801	CAACAGACCA	CTACCATCAT	TCATTACAAC	AACAGAAAAT	GGGGAAGTTT	TGTTGCACAA
268861	GAACCTCCAT	ACATCATTCT	TCTTTACATG	AATCAAGAAA	GTATTCCAAT	CATCCCATTG
268921	CTCATCGAGC	CTGTACCCCA	ACCATGGGTT	TACAAATAGA	CTATTAAATT	TATCCCATGA
268981	ACAGTATTCC	TGGAGAGAAA	TGAAGGGGTC	TTTCCCGTCC	AGGTCATTTG	GTCCAACATT
269041	TTCCACTACC	TTTACTTCCC	CGAGTCCAAT	TAGATTGACT	GTCGTCTTTT	CTTTTGTCTC
269101	GATCGCACAC	TCGCCAATGG	CAGCCAACAA	GGAATCGGGA	AGATCACTCC	TCATTTTCTT
269161	TGGCGGTGAA	GAAGGAGAAG	TGACCTGAAG	AGGCGCTGGT	CTCTTATTAT	TATTTTGTG
269221	CAGTTTATTT	CCTTCGGCAA	TTGCAGTGTT	CTTGAGTTTC	AAGAAATAGT	CGATAATGTA
269281	AAACTCTTCA	CCCTCTCCCA	GTTCTTCATA	CATCACATCA	CCAGATGTCC	TGATGGCTTC
269341	TTCCACCATA	GCCAAAGAAG	GTGCTCCACA	TTCAATCAAA	TCCATCAGCA	GTTTCTTCCC
269401	TCCTCTCCCC	ATTGCGACGA	GTTTGTTGGC	GTACCTGCAC	CAGGGACATT	TTCTGTTCTG
269461	CGGCTTGTC	GGACCAAGAG	TAGACATCAT	GTACTTGGAT	TTGCAGCAAT	CACATTCTAC
269521	ACATACAGCA	ACTGGAATAT	CAATATTGCC	CTCATTCAAT	AGCTTGTTAG	GAAGACAAGT
269581	CTTCCCATA	AAAATCCCCA	CAGCCTTCGC	TGCAGCTGAA	ACAGCAATTT	CATTGTCTTT
269641	ATCTGTTGGG	GGAAGATTGA	GAGCTCCAAT	GATATCACTA	GCCATCTCTT	TTACTTTGTC
269701	ATCAATTTTC	TTGGCATTCA	AAAGATTGAG	GGTTGTGGGT	GATGCAGTTT	TGGCAGGAGG
269761	ATCTCTGGTC	AATTTATTGT	CCCAGTGATA	GACCATTGGT	TTGCCCATCC	TGTAGTTTCC
269821	CTTGCACTCT	AAGCACAATT	TTTCATCATT	ATCATATTCC	ATCTTTAGAG	ATTTTACACC
269881	ACATCTTTTG	CATATATATT	TCAAGTCCTT	CTCTGATAGG	TCAAGTCGAC	GTACAGGGAA
269941	CGTCTCATAT	TTCTCCCCAA	TCTTTGAGTC	GCCAGCCTTT	GTCAAGATTC	TCAGAGCCAA
270001	AAAGTGTTCT	AGTTTATTGG	TAAAGTTCTT	GTCAACTCCT	ATCTTATTGG	CCCATGTAAT
270061	TAAGCACCTC	AAAAATACTA	CACCGGAAAG	ATTATTCTCG	ATCTCTCCAT	CGGCAGTTCC
270121	TTCAAGAATA	GAGGGCAAAA	TAATATCCAA	ATCAGTCTCG	GAAGTGTCTAT	TCTGCTCTTG
270181	GTAATACTTT	GTGAATGCCA	TTTTTGCAAT	AGAGAGGATC	ATGTTTGAAG	TGTTGGAGGG
270241	TACTTCACAG	GAGGCAGCCC	AAGAGGCGGC	TGCACACACA	GATTTGATTG	CTGCATAACC
270301	TCCTTCTGGC	AGACTCAGAC	GTACATCATA	CAAAGTTCCC	AATTTTGGAA	TCACAGTCTC
270361	CAAGTCGATA	AACATCATTT	CTGCCACATC	TTCTCGTCCT	CCAAATAGAT	CGCTGGCCAA
270421	TTCTTCTCGA	AGCACTTCCT	TCTGGTCATC	TGATCCACAA	AAGACTGGGA	TGGCAAAATA
270481	TCTGTTGGAG	GTTTTTGACG	TCTCCAAAAG	CACATCTTCA	ACATTTCTAG	TAATCTTTAG
270541	ACATGATACC	AATTTCTTGA	TGAAATCAAA	GCACTGTCCA	AACTCGAACC	TCTTGTTATC
270601	GTCCAGTGAT	AATAATCCTC	CTCCTGTATA	TGAATTGGAG	AAACTAAATG	ACTGGTGGAA
270661	GATTTTGCCA	GCTTCTTCCA	AGGCATCATT	GGGCACATAG	AACCACATAA	ACATGGAGGA
270721	TTGTTTCAGG	GTGAGATCTG	TATTGTTAAT	CACCTGGAGT	GCATCATAGC	TAGCAGATTT
270781	CATGTGCTTT	CCTTCTTTTA	GGAAGGCATA	TTCTGCCTTG	TTTCCGCATT	CAGTTCCAG
270841	ATCAGAAAGG	ATGGTAGAGA	CCCTCGAGCA	CACTCCTGCA	TTATTGCCTG	TAACAAAGGC
270901	ATAAATAGCC	CCAATTTTCAT	CAGGCACAGC	ACTGCAAGCG	TACATCATTT	ATTGTTCTCT
270961	GATCATCATT	TTGAAGAGTT	TTTCAGCAAA	CATCTTGGCC	CAGTGTACGC	GAGTCACTTT
	GCGAGACAAC	TTGGTTTTTC	TTCCTTGATC	AGATGTAGCT	TCAACACTTG	CCATCAATTT

271021 TGTACAACCC TTACAATCAC AGAGGTTTGT ATGGTCAATT CCAAAATCGT CCAACGACTG
271081 GAAACACGCG TTCATGTGCA GTGCCAGAGT AGAGGCGGCA TTTCTCTCCC CTGTAATTGA
271141 CTGGGCCCTT TGAGTCACTA CAGCCAGTTT GCTGATACCA CCACCACCGC TAGAAGACTG
271201 TTGTTGTTGT TGTTGCTGCT GTGGATTAAA GGTGTGCTTA GAGCAACAAA AGGCACTATC
271261 ATATGCACAA TTCAAGAACA CGCTACGCTT GTGGTTGTTA TATCTTCCTC CTCCCTGTAC
271321 AACTCTTCCA AAATCTAAAG GTGCCATATT TAAAACCCTA GACTTGAAAG ATTCACGTTG
271381 AGCGTCGCCA TACTTTTCAA ATCCTGCAGG CTCTGATCTT CCTTCACTTT CAATAAAAAC
271441 ATTCAATTCT TCTTGTTGA TTTCCCTCAA GATGGGGAAG GCACTAAATT GATCATTCAG
271501 GTTCTTGAAG AGGGAATAG ATTGCCTCAT AATAAAGGT GCGATATTCT TGCGCACATT
271561 GCACGATCTT CTGTCAAAGG ATTCAAAAAG TTGCCATCTG TTGTTGTCTG ATCCAGAAAA
271621 ATTGATCACA TCTTCTTGGC ACAATTCACT CTGGTTACTG CCACTACATC TAGAGAAATT
271681 GAGGATGCGT AGCCAACAAT CATTCTCCAC TAGCGCCTTC CTCATGTCAA GAATAGTCAA
271741 GGGTTTTTGT CCCCAGTCT TCATGATGAA TTCTTCTTCT GGTGCAGTTT CCGAATCGTA
271801 CGAGTTGGCA CATAATTTTC CAGTGTCACT ATTGGCAATA CGCACATCCT CATCGGTGAA
271861 CACAAAAATG AGGATGGGGA ATTTTTCATC CCTGGTAATG CCATGCATTT TCTTGAATGC
271921 AGGAATCATG TTGTTAAACA CGTACATCAG GGAAGAATGA AGAGCTTCAC TGCCACCGCC
271981 GCCGCCTCCG CACACTTCGG TCTTGCGCAT ATGCTTCACA AAATCTCCCC CTTCCCACTC
272041 TGAACAGTCT GGTGCACGCA CAACAGGTCC ACTTTCATAG GAGTGTGTTG CGAAATCATT
272101 TAGTAAACT ATAGCATTTT GAATGCCTGG AGCAATCACA TTGAGTGTAG CCATGATGCC
272161 AGAACAATA TCAGCCACAG CCGATTTTCACT ACTTCCCAT GAACCACTAA TATCCATCAA
272221 CGAGATACTT AGACCAGTAG GTTTTGCAGT TGGAGTATCT GTATCAGCAG CAGCAGCTTT
272281 CTTAGTCCAT CCATCTTCTA AAAGTTCAAT CTTGGAGGAA GGTGCATTTT CCATCAAAGA
272341 GTTAAAAAAA GATGCAGATT TCACAGTAGA ACTAGAATC TTGCTCATGG TGGAAGAAGC
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272461 GTAGGAACG ATCTCGACAA CTGTATGCTG AGGTGCCTCC GCAGGCCGCT TTTATACCCC
272521 TTTTCGTGTA CGTCAATTGA CGCTCGTACG TATAAACAGG GTCTATTTTT AGAGATGACA
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272641 CTAAGACAGG ATGTTTTTTT GGCCCAATAC TTTCTGGCGC AATCTGACAT TGGCCCGACC
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272761 AGTGAGCTGA AAAATTTTTC AAAAGTTTTT GAGATGAAGA AGAGGGTGAA AAGTGGGTAC
272821 GTACTATACA CTCAGAGGGT GGCAGATCGG CCCTGTTCCA GAAATGGCTG TCCAGAAATG
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272941 GGTTACAATT TCTTATAACT GGTGCATTAT TTCTAGCATA TATTCTAGCC CCTTTGTGCA
273001 ATCTGACATT GGGTCGACCC AGCGGTCCAC CCTTCGAACT TGACATCAGG CCGACCCAGC
273061 GGTCCACCCC CTAACTGGA GTGAGCTCAA AAAATTTTTT AAAAGTTTTT GAAACGAGGA
273121 TGAGGAGTAA AACACCTGTT AGAAAGTGGT TGCTGGTCCG TAGCATCCGT TCACTGCTGT
273181 TCCAGAAATG GCTGTCCAGA AATCAGATTC CAGAAACGTC TATAACQATT TCTGGAACAG
273241 TCATTTCTGG AAAGGGTTAC AATTTCTTAG ATGTGGTACA ATAACCTACC ATACATTTCT
273301 GGTATCTTCG TGCAATCTGA CATTGGGCCG ACCGACGGT CCACCCTTCG AACTTGACAT
273361 CAGGCCGACC CAGCGGTCCA CCCTCTAAAC TGAGGTGAGC TCAAAAAATT TTTCAAAAGT
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273661 AGCGGTCCAC CCTTCGAAC TGACATCAGG CCGACCCAGC GGTCCACCCC CTAACTGGA
273721 GTGAGCTGAA AAAATTTTTT AAAAGTTTTT GAATCGAGTA AGAGGGTGAA AACACCCTCT
273781 TGAAAGGCAC GATCTGGATG GTGCTGTCGG TTCACTGCTG TTCCAGAAAT GGCTGTCCAG
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274021 CCAGCGGTCC ACCCTCTAAA CTGGAGTGAG CTCAAAAAAT TTTTCAAAAG TTTTGAATC
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274141 CCAGAAATGG CTGTTCCAGA AATCTAGGTC GACCAGAATC CAGAAACGTT TATAGCCGTT
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274261 TATGGTATAG TACACCTCTC TGCAATCTGA CACTGGGTCG ACCCAGAGGT CCACCCTCGG
274321 AACTTGACAT CAGGCCGACC CAGCGGTCCA CCCTCTAAAC TCGAGCGACC CTAAAAAATT
274381 TTTCAAAAGT TTTTGAGACG GAGGAAGAGG GTGAAAACCC TTGCAACAGA GGGGGTATAA
274441 AGGGAGGTAC CCTCGCACAC CTTAGACACA CAACCTCATC ACCCTCCGTC CAATCAACAT
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274561 GGGAAGAGTT CATGGATGTC CAAGTTGATA GATACAGGAT CATGTGGAAT GTCTTTCTCT
274621 AATTTTCTTC GTATGAACAC TTCTGACTAC TACAACCTGGC CTGCCGAAAT CGGGACAGAA

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274681	CATCTCCAGT	TAGGTTTCAG	AGAAACCAGA	GTGGTGGATG	GAATGTTTGA	ACCTGTCCTA
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274801	GACTACAACG	GCCAAGTCAT	GGAGATCTAC	ATCGCAGAAT	GGTTGAGACA	AAGGCCACTA
274861	GCCTTCCACG	TGTTTACCCTA	TACAGATGAA	GCTGTCAAGA	GTGGATTCTT	GAACGAGGAG
274921	GATCTAGATA	TGGATACTGC	AACCAAGTGG	ATGGCTGAAA	TTATTAGAGA	GAAGAGGGGC
274981	AATATTCAAG	AAATAAAAGT	GACCCCTAGA	GTAGTCTTCA	ATGGCAATGT	TTGTAGTGCA
275041	TGTTTCTCTA	ACACTAAGAG	AAACTTGTAT	AACTTTGGAA	CAAACATAAA	CAATGTTGTA
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275161	AAACAATATA	TAAAATTTCAG	TTGTATTTTT	ATTGCTCAAA	TAAGTTACTA	CACCCAATTC
275221	TCCCCCCTCT	CTAGTGAGAG	ATCCCAATCA	CTTTCTACTG	TCACTGTTGC	TGCTGTTTGT
275281	TGTTCCCTCTT	CTTCCTCCTC	TTCTTCCTCT	TCATCTTCAT	CTTCTTTAGT	TCGTTCTTCA
275341	TTATATGCTT	TAATTATCCT	CAATACATTT	AAAATGGTGC	GCTCTTCTCG	GTTAAACTTC
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275461	TCACCAGAAA	AAATTCTAAT	AGACGGATTT	TTTATAGAAC	GTACAACAAT	GTCCACTAAT
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275581	CATGGATAAT	ATTGCACATT	GAATTGATCA	TATAAAGTAT	TGAAGATGAT	AGGGTAAGAT
275641	GTTGGCCCGT	AGGCAGACAT	GATCAAACGG	GGCCTGAAAC	CACCCTCATC	TCTCATTGTA
275701	CAATAATTTG	AACACATGAA	TCTGATTCCT	CTTTCTGTAC	CAGAATATAG	GGGTGTGTCT
275761	TCATTGAATC	TGTTTGTGAG	GAAAAAGTCT	CGTGCAGATA	ATGCAAACAC	GAGACACGTA
275821	CTTTTGTCTC	CTATTCTTCC	TATTTTCGTTT	CCATATTCTT	CCCTTGCTTC	TTCATCGATA
275881	GCATCCAATT	TGTTGGTTTC	CTCTAGTTTT	TCTTCTAGGT	ATTTCTCTCT	TGCGGCGTCA
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276001	TGGGCCGAAT	GTGTAACAAC	TGCATTCAAA	AATAATGCCA	TGCATTGATC	AAAATTTTTA
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276121	CATTGGTCAT	GACAACCTACC	CACTATAGGA	TTTTCTATGC	GGAGGCCTTT	TAGGATAAAT
276181	CGATGTGCTA	TATCGTGTA	AGGTACCATT	GATTTCGCCCC	CTAAAATACT	ACCCATACTT
276241	AACAGTTTCT	TTTCGACTTT	GTTGTTGGTT	ATCCCACAAC	CCATCAATAA	ATCAGCAGTT
276301	ACAATTATGT	ACTTGCAGTT	GTGAATTGCT	GCATTGAATA	GTCTATCAGT	GAGAATTCTA
276361	TATAGAGGGG	AGAAAGTGAA	AGACTTGTCA	TGGGGTAAAG	CTTCTCTTTT	CACTATATTG
276421	TTGATATTCC	TCAAATCTTC	TGGTAGTCTT	TTGAGCCAAT	CAGATTGAGA	TTCAGCACCT
276481	TTCTTGTAT	AGAAATTCCCT	CATTTGTGAA	TGATGTTGAA	GAAATAATGA	CGTTTTTTTCC
276541	AAGCAGGGGT	TGCCTGCTGA	GAGGCGTATT	TTATTCACAA	TTTCATCCAC	CTCATGTTTT
276601	GAGATGTTTT	TATGCAAAGA	GACGATATAT	ACACCTTCAG	CGAGTTTCGCT	TCTCCGTATA
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276721	GCAAACCCGG	ACGCCATCTT	TCATGACTCA	TTTTGGAGGG	TGAGATCATG	CAATGAAAAA
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276841	GTTTTTATCC	TCAACTTCTG	AGAATTGCTC	AACGTACTCA	TCTCTTTTCC	TGGTACATGA
276901	CGTCAATGGA	AATGCCGATT	GACGTCATGT	TAGGGGTATA	AAACGACTGG	CTCGAGCCCT
276961	CGGATTACACA	CTTTGTCTGT	CCTGAGCAGT	AGAGAAGGAC	CCAGTGAAGA	AAATACTCCT
277021	CAACTTCCAA	CAAGAATGGG	CTCTGCTAAC	TTGAACGACC	GAACCTACT	CGTGGAGGAA
277081	GGGCAAGTAA	ACGACTACGG	GTCTACCAAC	AAGAAACAAC	CAGTGTGCTG	TCACATTTGC
277141	TATCTAGTAA	GAGGAGGAAG	AATTGCATGT	GTCATCGCAT	CTGTTCTGGG	CTGCGTCCTC
277201	CTGCTGGTGA	CTGTCAATGAC	TTTGTGATT	TGGTACTGG	GAACCTGCAC	AGTTAATTGT
277261	GATGTGAGCC	CACAGAGCTA	CTCGCCGCCG	CCGCAGCCGC	CGGTGCAGTT	TCTCCTTAC
277321	CATTCTTCTT	CCACAACCAC	CACTACTTCC	ACTACTACTA	CTACTACACC	AACTCCACCA
277381	GATACTAAAA	AAGTTGACGA	CGACTATGAT	GACGACGTCA	ATATTGGAGG	GCAATCAGTT
277441	ACTGTGAATA	ATGGAGGTGT	TTTCATCAAT	GGAAGAAAAC	TCTCAAAAGA	AGAAGAAAAA
277501	GCAATGGGTA	TCAATACAGA	TAATGGAGGA	TTTGTTTGGG	AGAATGGTGT	TTTTTCTCAA
277561	TATGGCAAAA	AATAAAATAT	GGTATATTAA	ATATGTGTTG	TTTTATTGTT	TCTTTAAAAA
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277681	TGAGTAAAG	GTACTGTGCC	ATTACATGTT	GAGATCTTGT	ATTAGCAACA	TTAGAGAAAT
277741	GGGGGACAAT	AAAGATTATG	AAACAAGACT	GATTCAAAGA	ATTAATGATT	TGGAATCAGA
277801	AATTGAAAAT	AAAACCTGAAT	TATGTGAAAA	AATCAATGAG	CAGATGAAAA	ATACACAAC
277861	AAAATATGAT	AAATGTTTCG	TAGAGGAGGA	GACGGAAAAA	TTCCGCAAGA	TGGAGGAAAG
277921	AGTTAAATAC	CTCAAAGAGC	AGGGAATCCC	TCTAGACCCA	GAAGAAAGAC	GTACAATGTT
277981	GGCTGAAATT	GACAAGAGTA	ACAAAGAGTT	AGATGCCCTT	CTTGAGGAAA	ATGAACGTAT
278041	AATAAAGCTC	ATTGATGAAG	AGTTGGAAAG	TATGAAATAA	AATAAAAGAG	TAGGAGACTT
278101	TTCAGTTGGT	GTTATAAATA	TATCCCTGCA	AGGAGATACG	GTCTCAAAAA	ATCCATGACT
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18/

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WSBV cDNA 序列:

编号: C001

长度: 1642 bp

碱基对组成:

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901 AGAACAAAGG ATTTCTCTTC GAGATGTGCA TAAAAAGTCC TCAATTGCAT CATCCAGATA
961 TGACGGCGGT GCCTGTCTGG TCTTGCCTT TTCTGACCGA GATTTCTCCT TGTTGTGCAG
1021 AACCAATGGA AATGGTTCCT TTTACTCTGC CACAGAAGAA GGAATCAGAT ACGTCTCTTC
1081 GGACGACTAC AGAAAGAGGG ACGTGGATGA ACGTAGGCCC AGATTGGTCA GTCCATAAC
1141 TGGCTCAGAT GCACCTATAT GCATCAGAGA TAGTATACGA AACCATTTTA ATAACCATTT
1201 CATTGCATCC GGAAAGGGTA ATGAAATATC ATTCATCGAT CCTCCGAATG AAAGGTTGTT
1261 GATGGAGATG GTCAGAGAGG TTAATGGATC AGACATCAAA ATCTTCATGG ATAATGGAAA
1321 AGTATATCAA GATGGTGTAG AAATAAAAGT GATTGACCCC TCTTCTAAAG AAGGCAAGGA
1381 CATAATAAAA AAGGAAGAAA CATTACGAGA GGAGGAAAGG AAGCGTCTGC GCCGAGAGCG
1441 TCGCATGATT TTCAACACAG TTAAGCCAAAT TGAGACGTAC AACGAGGAAC GTGGGGAAGA
1501 AGAAGAAGTA GCCACAAGCA GTGGAGGAAC AAAGAGAAAG AGGGAGGAGA AAGAAGGCGA
1561 TTATGTTGCC CTTTTGAACA AGGCATGCAA AGAAATTAAA GTTTGTTGAA TATAATGGAC
1621 AATAAAACAA GTTATAACAT TT

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编号: C002

长度: 750 bp

碱基对组成:

226 A 186 C 165 G 173 T

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1   GCAAAAACCTA AGTTGGGAGA AAATGGACGT TTCTTCCTAT AAGAGCACTA TTGACTACCA
61  CAACATTGAA GATATGGACG ATCTCCAGCG CGCCACCTAC AAGGATCGTA TGGAGACGGA
121 ATTGGTCCTC GAGATGGCTA AGAAGGAGGG AAGGTACGTC CGATCGTTGG CCACCATGGA
181 CGAATTGGAG GTACCTGAAG AACCAGCCAC TTGCTACACT TGCGGCTACA CCTTTATTAG
241 ACGCAGGGCA CCCCACCAA AACGCAAGTC AATATTGAGA GAGCCTTGCG CTTACCCAGA
301 ACTTCTCCCC GATGCACCAT CCCCCTCCG TTTAGAAGAG CTGTGCGAC TGCCAGAAGG
361 AGCGAGTTTT TTCACCTACC CTCCCTACGA CGACGGATCT TCTACATCGT CTTACAAGC
421 CGAATGTGAA GATGATTATC CTCCACCATA CGACCCATCA GAAAATCCAC AGAGGTCCCA
481 AGTGTGTGAT TATTGTACCA CACGTCAAGT CCTCAGTTCT ATGACGGATC ACGCCAGGGC
541 CAACCTCATA AAAAATCTGA AGAGGGAGAA GAAGGCCCTG GGTCTTGGCC GTCGCAACAA
601 CTTTAGCTAC TAGGGTTGTA CAAGAAGAAA ATAGGATTGA TTGTATCGAT GACGAACCTT
661 GCATGTTTTT GACCATTTCT TTGCTTGCTG AGTGTACATA GCTTTATATT TGCCAATAAA
721 ACAGACCCCG AATGTAAAAA AAAAAAAAAA

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编号: C003

长度: 431 bp

碱基对组成:

146 A 68 C 99 G 118 T

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1   CTGAAGAATA TTGAAAGAAG ACTTCTTGAA GAGGACCGAT AAAAAAATGG CCACCTTCCA
61  GACTGACGCC GATTTCTTGC TGGTGGGGGA TGATACTAGT AGATATGAAG AAGTGATGAA
121 GACTTTTGAT ACTGTTGAGG CAGTCAGGAA GAGTGATCTA GATGACCGTG TTTACATGGT
181 GTGCCTAAAG CAGGGATCTA CTTTGTCTCT CAATGGAGGC ATCGAAGAAT TGCGTCTTTT
241 GACTGGAGAT TCAACGCTGG AGATTCAACC CATGATTGTG CCAACAACAG AATAAAATAA
301 AGACGGTGAC GGGAGACTAA TATCTTCTTT AGTTTCCCGT CACGGTGAAA ATGTTGGTTA
361 TTTCTTCCCT ATGTTTAAAA ATTTGTCTTG GTTAAAAAAA TAAACGAAA ACTGTCAAAA
421 AAAAAAAAAA A

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编号: C004

长度: 624 bp

碱基对组成: 177 A 111 C 157 G 179 T

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1 GGCACAACAA CAGACCCTAC CCGCCCCAAT ATCATATTCT TTGAAAGTCT ACTCCCCAAC
61 TCTGGTATTG AGGTGATGAA GAGGCGTCTC GTACGGCAAG GAAAGTGTGG GAATTTTGAA
121 GCAAGTGGAG GTGCTATGTC GTATTTCTGG CTCGAAGATA ATGCAGAAGA TATGGAGAAT
181 CTCAACAGTG GTTCCCATGT CAAGACAAAC TGCTTGGCAT TATTCCTTCA AGAGTTTATC
241 AGCAACTGGA TTGAAGAGAC TGATCGACAT GGACAGTACT GTACTTTTCC CCAATACATG
301 GACGGTGGGG ATGGTTCACG TGGGGGATAT TTTACTTCGC TAGCCATGAA ATGGATGGCT
361 AGGGATGTGA CTTTCTTTGT GTTTGTTGAT AGGAATAATA CTGTAGAAAA TCGGCGCATCC
421 ATATGGATGT ACCAAAACT ACTAGCAATT GGTGCAAAGG TAGTAAAGGT GATTGTTGAC
481 AATGCATCAA ACCCAATGTT TTCTGTATGT AATGCGTGTA GGTGCAAGTA CCCAGGCCCA
541 GTGTCATACG TTATTGAAGG CCATGGAGTG GGTCAATTCTG ATTTGACATG TGATGAGATT
601 TCTGGATTCT TTGTATAATA AAAC
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编号: C005

长度: 221 bp

碱基对组成: 88 A 35 C 35 G 63 T

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1 GAAGTTTTAA GGGTATCTCA ACTCAGATGG AGCCGCTTGT TCAATGAACA ATACAACACT
61 AGAATGTCCC TCAGACCAA AAGATTGAGC CTCATGAAGA TCTTCAACCA TGATTTGGGT
121 GTGTCTAAAT TTGGTGTATA CAACTCCTA GATATTATTG AAATGTACTG TTTTACTTTA
181 ATCTAAACAA TAAAAATAAT GTAAAGAAAA AAAAAAAAAA A
```

编号: C006

长度: 300 bp

碱基对组成: 141 A 30 C 79 G 50 T

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1 AAGAAGACAC TGCCAAAGGA ACCTGCCGTT AAGAAGGTGA AGCAGGAAGA AGATGTGGAG
61 ATGGAGGAAG TGAAGGAAGC AGCAGCAGAA GAAGAAAAGA AAGAGGAACA GGAGGCGAAG
121 GAGGAAGACG CTACTGAGTA TGACGACGAT ACAGAAGAGG ACGAGAAAGC AGTAGCATCT
181 GATGAAGATG AAGATGATGA AGATTCTAAA GCTATTTTCT AAATATCATG TGTATAAAAT
241 GTAGTATTTT AAAGGTATAA ATAAACACAA TATAAAGTTA AAAAAAAAAA AAAAAAAAAA
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编号: C007

长度: 645 bp

碱基对组成: 208 A 106 C 161 G 170 T

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1 CTCCTCTGTC GCATCATCCG TGATGATGGA AAGAGATGAA GAAAATACAC TGTCCCTCAG
61 GAACAGGAAT GTGAACAAAC CAACACCTGT TAGCGCCGCC TGGGTGCCTG TTGATGAAGA
121 GGATGAAGAT AGGGAGGAAA TGAGAAGACT TGAAGATTTT TCTTCAGATG AAGAAGACGA
181 TGATAATAAA TCATGTCATT GTGACCATAG CGATGACGAT GACGATGACG AGGAGGATCC
241 TTCATGCTTT AAGGGTTTTT CAGCTGGCCT GTGCTCTTTT GTGAGGGGTT TCTTTGGCTT
301 CCTCAGGAAG TCACTTACCA AGAAACAGGT GTTCCTTTCTT ACAAGCGCAG CCGTTGCTGC
361 TATTTTAAAG ACTAGAGATG TGGCTAAAC TGAAGAAGGC GCAGCAACCA TGGAAGAAAA
421 TTCAACAGAT GTGATTACTG GAGGAGATGG AGATAGTGGT ATTGCTGCTG ATGTTGTCTC
481 TCTCGCTAGT GAGGGAGAGG GAGAAAATGG ATCTCTTTTG GAATCTATTG CAACAACACT
541 CATCAAGACT ACAATTGAAA ATCTTGTAGA TGGTGGAGAA GAAACCACAG AATTGTAAAA
601 TGTTTTTTGG TATACAAATA AAAGAATACA TAATTTAAAA AAAAA
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编号: C008

长度: 529 bp

碱基对组成: 205 A 84 C 109 G 131 T

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1 GCCCTTACCT CTCTTATCTG CATTTTCATC CAAGATGTTA GTGGATAACA TGTTGAAGAA
61 TAATTATGTC AAAGTGGAAA ATGTTAACAG AGAAAAATTG ATCTGGAAAG CATTTAGAGA
121 GATGCAAACG GAATCAGAGA TATGGAAAAC TAGTGGGAGT AAAGCCGCAT CCGACAGGAA
181 TGTGAAGAAG GCCAAGCAAG ACTTGATACG GAACGCATCT ATAGGAAGAC TTATTGTCGA
241 ACCTGTAGGA AAGACCCCTA TTTCATCCAT AGCCTTATTC AGGTCTATGA AGGAGGTAG
301 AAGCGAAGAT TTAAAGATGG GAAGCAATAA TAAGTACCGT CTCGCCAGGG ACACGAAAAC
361 AGCTACACCA AGGAACCCCTC TAAGTTATAC TGGAAAGATT GTATTCTCTT TGGATGATTT
421 GAAAAATTTT AGTAAGGATT CTTATACTAC AATGAAAGTA TTTCTCTAA CACCTTTAGA
481 TGGATAGAAC CAATAAAATG GAATTGAAAA TATAAAAAAA AAAAAAAAAA
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编号: C009

长度: 1068 bp

碱基对组成: 323 A 254 C 277 G 214 T

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1 CGTCAAGATG GTGTCGTCTA TTACCCACCT CTCTCTGTTG TTCGTCGTGG CTGTAGTAGC
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61  TTCCGTCGTT TTTACAAC TG AAGGAGCTAG TGTGAGAGTG AAACGGTGTG CTGTTAGCCC
121 GTGCCCCGAC GTTATTGACC CCGACCACCG CTGCCAAGGG CGACTGTGCC GCAGGTCTAC
181 TCGAGGAGGT GACGACGACG ACGACGATGA CGATGGAGGA ACTTTCGATA CAGTAGGGTC
241 TGGTATACTT GGACGCAAAA AGCGTGCCCG ACCTCCACCT GAGGATGAAG AAGAGGATGA
301 GTTCTACCGC AAAAAGCGTG CCGCACCTCC ACCTGAGGAT GAAGAAGAGG ATGAGTTCTA
361 CCGCAAAAAG CGTGCCGCAC CTCCACCTGA GGATGAAGAA GAGGATGAGT TCTACCGCAA
421 AAAGCGTGCC GCACCTCCAC CTGAGGATGA AGAAGAGGAT GAGTTCTACC GCAAAAAGCG
481 TGCCGCACCT CCACCTGAGG ATGAAGAAGA GGATGATTTC TACCGCAAAA AGCGTGCCGC
541 ACCTCCACCT GAGGATGAAG AAGAGGATGA TTTCTACCGC AAAAAGCGTG CCGCACCTCC
601 ACCTGAGGAT GAAGAAGAGG ATGATTTCTA CCGCAAAAAG CGTGCCGCAC CTCCACCTGA
661 GGATGAAGAA GGAGATGAGT TCTACCGCAA AAAGCGTGCC GCACCTCCAC CTGAGGATGA
721 AGAAGAGGAT GATTTCTACC GCAAAAAGCG TGCCGCACCT CCACCTGAGG ATGAAGAAGA
781 GGATGATTTC TACCGCAAAA AGCGTGCCGC ACCTCCACCT GAGGATGAAG AAGAGGATGA
841 TTTCTACCGC AAAAAGCGTG CCGCACCTCC ACCTGAGGAT GAAGAAGAGG ATGATTTCTA
901 CCGCAAAAAG CGTTAAACTA CGCACGAAAG TGACGGTGGT TGAAGAATAG ACTAATATTG
961 TTGATATGTT AACCCCTTTT TTTTCATGAA TGTGTACACA CCTGCTATAT ATACGTGCAT
1021ATTTGAATAA GGAATAAAGT TTATCTGCAT CAAAAA AAAA

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编号: C010 长度: 1103 bp

碱基对组成: 386 A 208 C 191 G 318 T

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1  CTATTTTAGG GTACTAGAAA ACGTTGTCAG AACCAATCAT GAGGTTTATC CCGATGTTGA
61  TAATTGCGCT TATCGCTGCA TTTGTTATTG CAGCTCTTCT TACTGCCAAT TCAAAATTAC
121 TGGATCACAA TATCAATAAG GAACTAAATT TGACCCGTTT CCTTCAACTT CGGGGAACAT
181 TCACACCAGA AGATATAGCT CATAACAACA GAATTCTCCC TTCCAAGCTG AGTGTTTTAG
241 AAAGAGGGTC AATCATTTTA GCAGAAATGG ACAAGTACAA AAATGCACAA CCTACAGTAA
301 ATAATTCTGA AGAGAGGAGG AACATTTCTA CTCCTCAACA ACAACAACAG ACCACCCCTT
361 CATCCCAATC ATCTTCCCAA GTTGAACTTT AAATTCTATA AGAAAATGCT GATTTTTTGT
421 CCTGTATGTG ACGAGTCTCG CACCGACGAG AAAGAAGATT TTAACAACGA TGAGGAAGAA
481 AATATATTAAG AGGAGGAAGA AGTTAGTGGA GGAGAAAAGG TTGTAAATAT CGTAGTAGGG
541 AGTATTAAGA TGATGAAACC TGGTTCAAAA ATCAAAACAA AGTACAGGCT CTACTCCCTC
601 CTTGCAAGTG CGATAGGGAG TAGAAAGAAA CGTGAAGAAT ATATTGAACG TCTATACAAT
661 TCCTTTTCTT CCATGACGTT GAATGAAGGA GGACGTCTGG CTTGAGCGAT TTATTGTCCA
721 TCCTACAACA ATAAAAGGAT AAAAAACAAT CGTTCTAGGC CTGTGAAGCT GATCCATGCC
781 TCCAGGGAAT TGTTATCTGA AACTACGGTG AGGGAGGAAA TACTACGGAA ATCTCCCGCT
841 TCTTCTTCTT CTTCTTCAAC GTCATCATCC ACTTCTTCGT TTTCTTCAAT TTTTGTGTTT
901 GTACCTTCTA ATTGTACTTC TAAAACGTGA TGCAGTTTGT TAAAACACAT ACAGTATGAA
961 GAAGATATTA ACCGTTTAAG GTATAACATA ATACATATAT CTGAAGAAAA CTATGCTTCA
1021AGATTTTCTA AAATTAATAG ATTAACATA TGTATACAAG GTATAAGTAA GACAATAAAG
1081ATTCTATATT CCAAAAAAAA AAA

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编号: C011 长度: 1105 bp

碱基对组成: 375 A 167 C 264 G 299 T

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1  CTATTACAGG ATCACATGCA CATGCTCCTA GAGGGGGGGG GTGGCTGTGT CCTTGATATA
61  AAAGCGAGGT TGGCACAGAC TATCAAACAT TCAGCCGTAA ACCATGGAGG AAGAAAGTCA
121 ACGAGTACAG AGGAGGATCG GAGTCCTCCC AGAAGAGGCT GCCTCCCAGA TCCTGAAAGA
181 CACCAAGTTA AGAGTATCAT ATCTGGGCGT GGGACATTGG GGATACTCTG TTTCAGTTAT
241 AAAAAGTGCT CTCCAGAAAG GATGCAGGAG GAACGATGAG GATATAACTG CGTGGTCAAT
301 CAGGGAGGCT TATCTCTATT ACCATCTTGG ATTGAATTAC ATTGAAAACG TAAAACCTGC
361 TGCAAAATCA TTAAATACAA ATATGGTAAA CAGAATTAAA ATCATAGCTG TGGAGGATAC
421 CAGTCCTAGA AGTATGGTGG CTTCTAATGA GTGTGTGAGA ACTCTAGAAA AATATGAAAA
481 GGGGAATTTT AGGCAACCCA GTTACTTGAT GGATGCTGCC ATGAGGCTAG TTCACGCCTC
541 CAGTTCTAGA GTGTGCTCCC ACATGAGAGC TTTGTGTTGC AAGGAAGAGG ACAGTGATAA
601 ATTAGGGGGT ATTTATTATG CTAATTTTAA TGAACCTGAA ACTCAGTGTG TTAGTGCAGT
661 TAATTTTTTCT CCCATAGAAA GAATTAACAA CGTCTTCAGG GAGATTGAAA GTGTAAAATT
721 GGGGAAGAAA AGTGACAGT TATTAAATTT AAGAAGTGTA GCAGCTTACC ATGTGTAAAG
781 ATATTATGGG GATAAAGTGA AAGATACAAA TAAGAAACAT AGTGGACCAT TCAAGCGAAA
841 AGAGTTTGAG CAGTTTGGG GGTATGCTT TAAATTTGTT ACTCAGCACG TAAAAACAGA
901 CCCTGAATTA CGTTGTTATT TTAATGAGTT GACATATGCC ATAAATTGGA GAAGGGATTT
961 TTTCTGCTCA AAAGGGTTCT TTAGAGAAGA AAGTCTATTC CTTACATCTA TTGTGGAATT
1021AATTATAGCC ATGTGCATAG GTGACCGTAA ACAGTTTGCC AAGATTGAGA AAAGGGATTT
1081AAAACGTTTC AAAAAA AAAA

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编号: C012 长度: 650 bp

碱基对组成: 211 A 144 C 127 G 168 T

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1  CCCCTATCAG CTTGAGAAAT ATTGACCCAG AATCAGTCCC CGACACTCGA TTCCACTTTC
61 TGCTCATGAT GTGGCAGCGG CCAATATCG ATGAACCTAA TCTTTCTGCT CTAACCTACAA
121 GTCAGCTAGA ATTGTTGCTT AGCAAGAACC AAAAATGGGA CAACTCACC ACCAGAGCGT
181 TCTTCAATAT CGACAGGATC AATTTCCAGA TGGCAGACGC TATCATTAAG AACGTTTCTG
241 GAAGCGGCTT CCTAGATGGG AGTAAACTG CCTCTTCTTC TTCTCAGCG CCTAACTTTT
301 TCCAAATCTT CAGTGGTGCT GAATGCACTG CAAAGCAGCT CCAAAGTATT CGCAAATTCA
361 TTGGAGAATC TATGCAGCAT GTACAAAAGG AATGGAGTAG TGCAGTAAAC AATGGGAACA
421 GAGGAGTAGA AAATTATGAC GGACTCAATG CTCAGTTCTC TGAAGAACTG TTCGAGCTGC
481 TCTACAAATT GATCATCGAG GAGGATATGC GGCCATCCAG CCTGATCGCC TCATCTGAAT
541 TCTTGAGCAA CTACGTCAAC GCCATGGATG AACTTCTTAT CAGAGCTAAT GCTTCTTAGA
601 TAGGGTTTTT ATGAAATAAA ACAAATATAA ATTATAAAAA AAAAAAAAAA

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编号: C013 长度: 524 bp

碱基对组成: 213 A 78 C 129 G 104 T

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1  GTACGAAACC ACTTCAAGAC GAGACTTTTC TCCCGCACCA GTGGCAATAG TATAACCTTT
61 GCAGTCCCTC CAGGAGAAAG GGAATAATG GAAATGGTCA GAGAGGTAAC AGGAACAGAC
121 ATCAAAATTT TCATGGATAA TGGAAAAGTA TATCAAAATG GTGCCGAAAT CAATGTGATT
181 GATCCGACAT CTAAGGAATA CAAAGAGTTA CTCAAAAGGG AAGAAAACCTT GCCCGAAGAC
241 GAACGGGAAG GTTTCGCGCG AGAACGACGC ATGATTTTCA ATACGTCAAG GGCAATTTCC
301 ATGTATAATG AAGAACGTGG AGATGGAGGA AGTGGAGGAG AAACCTCAGA AGATGGAGAT
361 GGAACGGCA GCACCAGCAG TAAAGGAGAG AAAAGGAAAA GAGAAGAAAA TGAAGGGAAT
421 GAATATGTAG TCCTTTTGAA CAAGGCTTGT AAAGACATAA AAGTTTGCTA ACCATGCATT
481 TATTTTAAAT GGGTTTGGGA CAAAAAAAAA AAAAAAAAAA AAAA

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编号: C014 长度: 715 bp

碱基对组成: 225 A 145 C 144 G 201 T

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1  CTCCAGTACG TCCAGAAATG ACTGGTCTTA TTGGTGCAAT CTCCGCGCCA GTTAGAGGTA
61 TTAGCCACTT GTTGAACTG GGAGGTGTTT CTGCTGCTAA CGCAGCTATC CGCAAGCGCC
121 TCAACCTACC TACATCCAAC GGGAAAACAC TACCAGAACA TGGAATCGTA CACAAATCAG
181 CCAAGACACT TTTGCTTGAT TCAGACTCTA TTAGCAACCT ATACAACACT GATCTTCAAG
241 ACGTTGTCTC TAACGCTAGG GATAACAACA ATTTGGGAAG AATTATGCAA TCTTTGGGAC
301 TTAAGGGGAA TAATGCAGGG GATTTGGTTT ATTCTGCTAG ACAACTGACG GACCTTATTA
361 CTGTACCAGA ATATGGAAAC AATCGCGATC TTACCAAGCG TCAAGCTATC CTTAAAATGC
421 TCATTTCTAA CCCTGAAATT CTAGAAAATG TTGCAGATAC CATTTACCTT ACAACAGGTA
481 AAAATGCTCT CGCACC GGTA TCTGCTCAGG AAATGGCTTG TCGTCTCTG ACAGTCGGAG
541 GAAGTGGAGG AGGAAAACCTG TCATCAGACG ACAATGTTCA ATCCCTGAAC CGCCTTTATT
601 TTCGGGTCTA GACTAGTGTA ATATTGTATG TTTAATTTAT TGTGTAACAA TTGGTTTATA
661 TTTGTATGTG ATTTTTTCGG ACAAATAAAA GAATTGGAAT AAAAAAAAAA AAAA

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编号: C015 长度: 1077 bp

碱基对组成: 338 A 192 C 209 G 338 T

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1  CTAGAATTGA GAGACGTAAA ATCAGTTTCC CGTTTAGAGG AGAATACTAA CACCTTTTTT
61 CATTTGTACA CTTCAATGAG TCTTTGTGCT AAGGCTGCAA CAAATTACGG AGAATCTTCT
121 TCTTCTTCTG CTACTATCAC TGAAGTAGAA GAAGACAATA GTTGTGATGC TGAGGAACAA
181 CAATTGCGCC GTAAGAAACC AGCAAATTAC GAGTCCATGT GCAATAAATT ACCATCACCT
241 CTTCAAATGT GCCAGATTAA TCCTAAATCT TTGAATACAA TGGCTATGAA TATTGCTCGT
301 TCTAGACAAG GCGCATGGGC TCAACTAAAT AGCATGCTCA ATTCAGTTT ATTTGTAGAA
361 ATGCCCTTTG TTAAGACCAC AAGATTCTTT GGGAGAGATT TTAACATCAA GATGCACTCT
421 CCTGCCACAA AGAATAGGCC AGCCATCAAT TTTGACAATT GTATTGGTAT GAGTTTACCA
481 AATCCTGATA TGGGTGTTGT AGGATATGAT AAGGAAGGGG AATTAATAGG AGTTGGTTCT
541 TACTTAACAA AACATTTGTG TGATGCCTGG GTTCAATGG ATGTTAGGGA TTTGATGTAT
601 TCTTGCCACC ATTTACACAT GTTGTTTGAA ATGGCTCTCC AGTATACTGA ATGTAAGAGG
661 AGACTTTCCT CATTA AAAAC ACTAAAGAGT GATAAACTG GTGTTGATTA TGTGCTGTA
721 ATGTTAGCCT GTATGGTGTA CCAATTGATG GTTAGTAATC TGAAATACCC TGTGTTTTTG
781 TCCTCTTCAT CCCACAAGAG GGCAAATACA GAGGATATTG CGGATGAGAA TCAAGTTTCT
841 TCACCTATCTG TTCCCATGTT TCTGGCAATG GTTGTGAATA AACCGTTGCA TGCTCTTAGA
901 CACTCTACCA ATTTAGCTCT TCCTAATGCT TCTCAAAAAT CTGACCATTG TGATATTGCT
961 AAGTACATTG TAATGAACCA ATGGGGTTTT AGACTTAACC CTGATTATCT TGCCCCAAC
1021 TGTGTAAAC ATGTTCTTTG ATCAAATAAA AGAATTGATG AATAAAAAAA AAAAAA

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编号: C016 长度: 724 bp
 碱基对组成: 248 A 144 C 146 G 186 T
 1 CAACACGTAA AGGAAGAACT TCCATCTAAA ACAAAGAAAA ATGGAATTTG GCAACCTAAC
 61 AAACCTGGAC GTTGCAATTA TTGCAATCTT GTCCATTGCA ATCATTGCTC TAATCGTTAT
 121 CATGGTTATA ATGATTGTAT TCAACACACG TGTTGGAAGA AGCGTCGTCG CTAATTATGA
 181 TCAGATGATG CGAGTCCCAA TTCAAAGAAG GGCAAAGGTA ATGTCAATTC GTGGAGAGAG
 241 GTCCTACAAT ACTCCTCTTG GAAAGGTGGC CATGAAGAAT GGTCTCTCCG ATAAGGACAT
 301 GAAGGATGTT TCTGCTGATC TTGTCATCTC TACCGTCACA GCCCCAAGGA CTGATCCCCG
 361 TGGCACTGGG GCCGAGAACT CTAACATGAC TTTGAAGATC CTCAACAACA CTGGCGTCGA
 421 TCTCTTGATC AACGACATTA CTGTTCCGCC AACTGTTATT GCAGGAAACA TTAAGGGAAA
 481 TACTATGTCG AACACTTACT TCTCGAGCAA GGACATTAAA TCTTCATCTT CAAAAATTAC
 541 CCTCATTGAC GTGTGCAGCA AATTTGAAGA CGGCGCAGCC TTCGAAGCTA CAATGAACAT
 601 TGGATTCAAC TCCAAGAATG TGATCGATAT CAAGGACGAA ATCAAGAAGA AGTAAAGTGG
 661 GAATTGTACA AATATAAAGG TTTTGTTTGA ATAAAAATAC AAGTAATTTT AAAAAAAAAA
 721 AAAA

编号: C017 长度: 864 bp
 碱基对组成: 300 A 211 C 160 G 193 T
 1 CTTCCAACCG ATTCAGTCAG CTGAGGGGCA ACGAGGAGAT GGTGAGGAC TATTCAAGAT
 61 GGACAACTGT CAAGAACAGG AGGAACAGAC AGCAACAGTA TTCCCATAGT TTCCGTCCCC
 121 AACACAACA ACAACATCAA AAAAGAACAT CAACCAATTC TCCTCCTGCT CCACCTCCTC
 181 CATTCCCCAT CATTAGTTGG GGAGCCCTCG GCAGCTACTC AATGTATCGA CTGGATGACC
 241 AGTGCAGAAA TTGCGATGAA ACTGGCTATT ACAATTTCCA CTCTTATGAT AGAAAGAGGG
 301 AAAGAGTTCTG CTCATTAAAC AACACTCCAA GTGAAGGCAT GTGGCGGCGC ACAAGTAGAT
 361 CTTCCCCCTT CCTTAATAAG AAGAAGGACG TTGACGAAGC TCCACCTCCT CAATCAAACC
 421 AACACATGTA CCCCCTCAAC AAGTACAGTT TCCGTGAATA TACTCCTTCA TCAAAGCTTG
 481 TGAATTGGCG AGACCCTTCA CAAGAAAAAC AGGACAAGAT CTTACAAGAG GAAGAAGCTC
 541 GCGCCCCTAC ACCCACTCCC CAAGAAAAGG AACCAGAAGT AGAACTAAA GATGATGTTG
 601 TCATCGAGGA AGAACTGCA CCAGAACCAG AACCAGAACC AGCCCCAGTT CCAGACCCAG
 661 ATATTCCCGC AATAACTGCA ACTACTACTA CTACTACAGT TGCAACACGT CACGACGATT
 721 CTTCTACAGT ATTTCTCAGA AATGTTATTC TGAGTATCGT GTTTTGGTTT CTGGGTGTTT
 781 ATTCTGCATT ATTTGCAAAA TGTATTAGAT CTAAGAAGGA ATAAATAAAA TGGTATATGA
 841 AATTTAAAAA AAAAAAAAAA AAAA

编号: C018 长度: 513 bp
 碱基对组成: 162 A 119 C 103 G 129 T
 1 CGATAAAACA ACAGGTCTTT ACGTTACATT GACGTACCTC TTCATCAAAC AGAAAAAAAAA
 61 TGGCCACCAC GACTAACACT CTTCTTTTCG GCAGGACCGG AGCCAGGCC GCTGGCCCTT
 121 CTTACACCAT GGAAGATCTT GAAGGCTCCA TGTCTATGGC TCGCATGGGT CTCTTTTTGA
 181 TCGTTGCTAT CTCAATTGGT ATCCTCGTCC TGGCCGTCAT GAATGTATGG ATGGGACCAA
 241 AGAAGGACAG CGATCCTGAC ACTGATAAGG ACACCGATGA TGATGACGAC ACTGCCAACG
 301 ATAACGATGA TGAGGACAAA TATAAGAACA GGACCAGGGA TATGATGCTT CTGGCTGGGT
 361 CCGCTCTTCT GTTCTCTCGT TCCGCCGCCA CCGTTTTTAT GTCTTACCCC AAGAGGAGGC
 421 AGTAAAAATA TAGAAAACAC AACATCAGGG AAAAAAATTA TAATTAATAAC ACCTTTTATT
 481 ATAAATAAAA ATTTATTTGA AAACCTAAAA AAA

编号: C019 长度: 129 bp
 碱基对组成: 50 A 32 C 14 G 33 T
 1 AGCAGCAGTC CTCCTCCTTC TTCTCCTCCT GCACATAAAA AATCACGTCT TCCGGATGAA
 61 GGCGAAAAAT GTACACTCTG TTAATTTTTT CAAACAATAA ACTAACCACC TTGTAAAAAA
 121 AAAAAAAAAA

编号: C020 长度: 234 bp
 碱基对组成: 113 A 37 C 32 G 52 T
 1 ACAACCTCCA CATCTCCTTC TAATTCTAAC ACACAAGAAA AGGATAAAAA TAAATAAAT
 61 ATTGATGCTA ACAAATTTTA TTCAAGAGGT CACAAACATG TACCAATATC AATTGTAAAA
 121 AGCACGTTAA ACAAAGCGTT AAAAAATAGCA GGTATGTCTG CTATGAGCAA AGAGCAAGTG

TTAACAATGT ACCAATTAAT AAACCTTAGG TAGGAAAGAG AAAAAAAAAA AAAA

18/

编号: C021 长度: 587 bp
碱基对组成: 220 A 115 C 102 G 150 T
1 ACTTGAGATT AGACACTATG TCATCTCTAT GGGAGGTGCT GCAGTGACAA AGATTTCCGA
61 TGAAGATTTG GAACAATTCA CGCCTGTAAG AGGTGCTGTC TCTGTCACTA CAGCACCTAA
121 TGATAAGCTA CCTGTAGGGG CACATCAGAC ATGGAAGGAT GAACAAACAC TAAAAACAAA
181 CACTAAACGT AATAGTCTAT ATGACTCTTA CAATTCAAAA AGGAATAATA GGGATAATAA
241 TAAAAATAAA AATCGTTCAT TAAAACTATC AGATTTTAAT TGGAGAACAC CCAATATCTC
301 TATTCAAGAA TTTAATGCAA ATAAAGATGA TGTTAACAAG AAGAGGTACG CAGAAGTCGT
361 GCGTCAAGCT GCTCCAAAGT CACCTTCACC AACGAGCAGC AGCAGCAGCA ACAGCAACAG
421 CAGCAGCCCT CCTCTTTCAC CGCTCTCACC AACAGTGAAG AATAGTAATA ATAAACCATT
481 GTATATTCCCT CCCCATAAAA GAATGACCAC TACTGCTGTT TGACCAATTT ATGGGTTATT
541 TTATAATGTT GTGTGATATT TTATACAATA AAAATATATA AGAAAAAC

编号: C022 长度: 1060 bp
碱基对组成: 270 A 235 C 300 G 255 T
1 AATCAATTAT TTTTATTATT GAATTTACAA TGTCTACAGT ATACTGCAAC AAACCTTCCC
61 TTTAATCGGT GTTAACCTTTT CCAATCTTTA AATGCTGAGG ATGCATTATG AAGTCTACGA
121 CGAAGGACAC TCGACCACAC ACGTAGCTCC ATCCTCGCAC TCCCGCGTTA CTCTACTGAA
181 GACCTGGTTG TCGGGGCGAGA GGAAGTTCGA CATGGTGGGG GCGGTGCACA GGTAGAACCT
241 GTGGCAGTCG GTGGGGTCCG GCACGCGTTC GGAGTCCTGG GTGCAGTGAG GCTCGCAGAT
301 GTTGCAGTAG TTGTAGCAGA GGGTGTGCTC GTTCTGACAC TTTCCCGTCA AGTAATCGAA
361 GTTAATGTTA TGAGTTGGGC ATTCTTCCCC GAGCAAGTTG TTATTCTGCA GGCAGACGTA
421 GTACCGGTAG CACTTGGTCG GGTGAGGCGT GAGCTCTCCT GGACTGCTGC AATGTGGCTC
481 GCACGGGTTG CACAGGCGAG AGCAGAAGTC GCTCGGAGCT CCGGCTATGG GGTGCGACGG
541 AGGCGAGGTG TGGTGCTCGT TGAAGTAGTG GCGTCGCGGA CAGTCCACGG TTCAGACGGT
601 AATAAGATGC CGTCGCCAGT AACGTCGAGG CAGACGTAGT ACCTGGTGCA GTCGGTGGGG
661 TCCCGCACTT TGGTTCCGGG GTCCACGTCC GTGCAGTCCG GGGCACAGAG CTGCACATTC
721 GGAGACACCG CGATGAAGAG GAAAAGGAGG GTGGAGCACG CGTGGTCAAA CAGCATACCG
781 AAATCATGTC TGATATGACC AGAAACATCA TCGTCGGCTT GGCCGTTGTC GTCATCGCAT
841 TGAGCATGGT CGCTTTTCATG CTTTCTGTTA CTCCTGCACT TACCGGATTC CTCCTAGGTT
901 TGGGTGTATC AGCACTAGGA GTTACACTCT TTGGATGTCC CACTATGAAA TCTCCAGGGG
961 GAGGAAATGC TACAATCAAC CCCGTGGCAT AAAAAGGTGT TTAATAAAAA TCAATAAATT
1021 TGGTAAATAA TAAAAA AAAA AAAAAA

编号: C023 长度: 650 bp
碱基对组成: 250 A 116 C 130 G 154 T
1 GGAGGATTAA TTTTAAACCG CCAAGTTGTT GGACAAGAAC AAGCACCACC AATAAACACG
61 TCGTCGGATA CTAAAAAAT AAGACGTGAT GCAAATATTG AACCAATAAT AGGGACGCCT
121 TATAGTGTA TTAAGGCAAG TAAAGGAGTA TCAATTTTCACT TACTGGATGA TTTCAATGAG
181 GATAGTCCAG AAGATTTTCG CTTTAAACT TCCATCATCA ATGATGCCAT ACGAGAAATA
241 GGGCAACGCA TGAATTATAC AAGACCTATA TTTGATCATC AAACACAGAA AAATATACAC
301 TACAGTTCAC CTAAAATTAT TCTCGAAGGA TCAGATTTAA AGAATGGACA ACGTTCAGGA
361 CAATCTTGGG CTCCTTCTTC ATCATCTTGG ACTCTGGCCT CCGATTGGAA TCTACCTTCT
421 CTGGAGCTTT TATATAGAGA ACTTGCCACA AAACAAGTAG AGAAGGAAGA AGAAGAAAAG
481 AGCGAAAGGG AAGAAGATAA AGGACAAAAA CTTAATGAAA AATTATCATT TGTCGTGAAT
541 AAAGCTATCG GAACTATCCA ACAACAACAT CAATATTCTG AAAGGGGAGG AGGAATGAAG
601 AGGTATCAGC AACACTCTGC TGATCAAGCT AGTAATGGTG GCATAGATGA

编号: C024 长度: 365 bp
碱基对组成: 153 A 53 C 52 G 107 T
1 ATACGCTACA AACAAAACAG AGGACTGTTT TTGTAAGTTA CTCCCCAACT GTTATAATGT
61 TAAAAAGGCA TCAGACTATT GGATAAGCTC TGCAAGCACA GCTAAGGAAA AAACGTACTT
121 GTTTATTGCT AATAAAAAAT ATGAAACAAG TTTCTTCTAT AACTTTGAGG AAGGTGTTGA
181 AGAAATTGAC CTGGACATTT TTATGACAAT AGATTGTGCA CCTAATCTTC CTTTATTAA
241 AAATTTACCA AGACCTATTA CAGATAATAA TATAATGGTT GCACTGTCAT AACACTAAAA
301 ATATTGTATC ACATACAAAA AAAGGTATAA ATAAATTGCA ATGATATATA AAAAAAAAAA
361 AAAAA

180
编号: C025 长度: 624 bp

碱基对组成: 222 A 115 C 111 G 176 T
1 GTTTTCTTTA TTCTAGCAAT AACTGCCTTA GCTGTCGCTC TCTATATACG ACATGCTTCT
61 AAACAAGAAA AATACTCCAC TTCTCATATC AATGAACAAT TTACTGCCAA ACAGTTGCCA
121 GTCACCTACT TGTCAAAAAC GGGTAAATTA AAGGACATGC ACTTGACCCA TTCCGATTTT
181 ATGGCATATG TTGATGTGCA CAATAGAACA AAAACTCTGA AGCACCCCAT GTGTACTGAC
241 GAGGCTGGCT GGGCCCACTT TTGCCTGCTG GCTTCTGCTG AAGCTTATCG TCGCATCCGT
301 TATGGGAGAG GAGAATTTGG ACCAGAAAAA CATTCCCTAG CTGAAACTAT CCAATCGACA
361 GTACAAGATA TGTCGGAGCC ATATATAACC CACATCTTCA AGAAGAACAC GGATGTTGAT
421 GGACACGGAA TGCAATCTGT TTTGGAGAAG AATAGGAATA AAATCAGAAT GGGTGATGGA
481 AAAACGTCAT CAGAAACTTA TAATCTTAGT GATAAGTCTA TATCTATTGT TGGTGATATAG
541 GAATAAAACA ATGCAATTTT TATACATGTA TAATCTTTAT TGTTACTAAA ATAAAAATAT
601 ATAAAAATATA AAAAAAAAAA AAAA

编号: C026 长度: 679 bp

碱基对组成: 244 A 164 C 110 G 161 T
1 TTACGATCTG GCCAATGTTA CCCCTCAAGT CACAAAACCTG GTAACATTTT CTGGTCCAAC
61 CTATGCTAGT CCGCCTACAC CCAGGCCAGT TGCCAATACA CCTCAACAAC AACCAACAAG
121 TACAAATAAA GAGGAAGAAA GTGTCTATAT GCCAATGTCG AGCTGCTCGT CGTCATTTTC
181 TTCTGACAAT AGTCTTCCTC TGCCAACACC GCCGCCATCT CCACCTAGAA GCAATGGCGG
241 TGATTACGTG TCATATGTAA ACGGACGACA TCTGAAGCTT CCTTCAAACC CACCTTCTCC
301 CATCTTCAAT ATCAAGAATG AGGAGGGAGA GGATGATAAT GTGGAAGAAC ATGTCTACGA
361 ATACGTGCCA GAAGTACCTC AACAATCTCC ATCTATCCAG AAGTGTATCC AGGAATTGAA
421 GGAGATGAAA CACAAGAAAA ACACCCTAAC CAGGAGCAGT AGTAACAACA ACAACAATGC
481 TCCACGTATA ACCCAAGTTA CGTTTAAGAA ATTCCCACCT AACAATAATA ACATGTGGGA
541 GAATCATGTG TATGGAAACA CTACAATTGT GTCTTCCACA CCTTCTCCTA CCTTTATTCC
601 TTCACCTAAA AGTATCATAA GGAAATTGTC ATTTAAGAGG AAACAATAAA ATATTATATA
661 AATTAAAAAA AAAAAAAAAA

编号: C027 长度: 537 bp

碱基对组成: 197 A 62 C 110 G 168 T
1 AAAATTTGAA GATGTACATT ATATAGATAT CAATTTTCAG TCCTTTGTAA GAGAACAGAT
61 AGGTTTAAGT GTATTAGGTA AAAATGATGT CCAAAAAGAAG AAGAAGGAAG AAACCCCTTT
121 CTTTGACCCC TTTAATAAAT CTAAAATAGG AGGTGAATGC ATAGAAGATT TAAAGTATGA
181 TTCTGAGTCT GTTTCTATTA TAAGAGATGT GTTTAATTTA TTGGGTGAAA TGCCTACTGA
241 GGATGTAAAG ACATCAAGAA GTTGATATAA CCCTTCCCAC AATGATACGA ATCCTAGTAT
301 GAGGTTAGTG TTTCTGCCCCA TGTACTGGAG AAATTCTAAG CTGGTCATGG ATAAATTATC
361 CAAGGAACAA GACTCGGCTT TGATTGAAAA GTATATGGGA GGAGAACATC AACATTGTAT
421 CATTGGAGGG AGAAATGTAT TATTGTATTG TATAACTGCA CTATGTTTTA GCTCTGATTG
481 TGGATTTAAA AAGATGTTAA CTAATGATGA AATAAAACAA TTGATATGGT AAAAAA

编号: C028 长度: 597 bp

碱基对组成: 196 A 127 C 126 G 148 T
1 AAAATACTCC TCAACTTCCA ACAAGAATGG GCTCTGCTAA CTTGAACGAC CGAACTCTAC
61 TCGTGAGGGA AGGGCAAGTA AACGACTACG GGTCTACCAA CAAGAAACAA CCAGTGTGCT
121 GTCACATTTG CTATCTAGGA AGAGGAGGAA GAATTGCATG TGTCATCGCA TCTGTTCTGG
181 GCTGCGTCTT CCTGCTGGTG ACTGTCATGA CTTTGTGAT TGTGGTACTG GGAAGTGCAC
241 CAGTTAATTG TGATGTGAGC CCACAGAGCT ACTCGCCGCC GCCGCAGCCG CCGGTGCAGT
301 TTCATCCTTA CCATTCTTCT TCCACAACCA CCACTACTTC CACTACTACT ACTACTACAC
361 CAACTCCACC AGATACTAAA AAAGTTGACG ACGACTATGA TGACGACGTC AATATTGGAG
421 GGCAATCAGT TACTGTGAAT AATGGAGGTG TTTTCATCAA TGGAAGAAAA CTCTCAAAAG
481 AAGAAGAAAA AGCAATGGGT ATCAATACAG ATAATGGAGG ATTTGTTTGG AAGAATGGTG
541 TTTTTTCTCA ATATGGCAA AAATAAAATA TGATATATTA AAAAAAAAAA AAAAAA

编号: C029 长度: 1212 bp

碱基对组成: 424 A 187 C 277 G 324 T
1 CGAAGAAGCA GAAGAAGAGG ACGAAGAAAA TGGTGAAAAC GAAGAGAACA AAGGTGACTG
61 TGTCACGGAA AAAAAGATCC CTGGACGAAG CACTAACAAG GATGTTGGTG AAGAACTAA

121 AACAAAGCGAG AAAACGGAGG GAGAAAGAAA GGGCTCTAAG ACGGCAAAGG GAAAGACGGA
181 GGAAATTGCT AGTTCGTTGA GTAAATGTGG GAAGAAAGAT GCGAGAGATG TCATTCTTGA
241 CCGTTTACTA AAAGCAACAC ATTCTTCTTG CACCAACAAT GAAGAGAGAA CCAGAGTCTT
301 ACAACAATAT AGCAATTGTA CATTATCTTC CTATATAACT TCAGTCATGA AATTGGACCA
361 AAGAGTAGCA GACCAAATGG AAAATTTAAT ATCTCAATTG GATCAAATAC GTAATCTCTC
421 CAACAAGAAG AGGCAAGAAA AGGGAGGGCC TTTTAAGTCT GAATTGGACG CCATGGTTGC
481 TGCAGTTAAG GTTAAGTTTT TCCCAGTTTT AGATGCGTCT AGAAAATTGA CTCAAGACCA
541 TTGGAAAAAG TGCCCCGTGT CCATCCCAGA AACGCGTGAA GAAAAACCAT TAATGGGTGT
601 GCCTTTTGAA GTTGCACTCA ATTCTCTAAT AGGAAAACAC AAGTGCACAG ATACATGCGA
661 CATGGCTTGT TGTCAATCAT TGTATTTTGT CCTCTTGATC ACGCTAGCTT TAAAATTTGA
721 GAACGAAAGA TTGGCCCGGC AAATTGGCCT AGATGACTCT GTAGATTTGA TGGCTGAGAT
781 GTTGTTGCGA GGGGATAAAC TATTGGCCCC GGAAGTGTTA AAAAGGGTAA AAGATGCTCA
841 AGATAGAAAG TTGGTGAAAT CTTTATTGCC TTTAAATTAT AACCATGACA CAAATACAAT
901 TATATTTTTG TTTGAGTCTT TAAGGTTTGC TCAGAAACCT GTAGCTGGTA TGAGTGTTAG
961 TGAAATAAAA GACGCTGTTA GAGGTCTGGC CTTTTCTACC ACTACAGGTA CTGTGTGGAA
1021TTATACTGAT GAAAGATTTT TTGGACCATT GTATAACATG GATGAACTTT GTAACGAACG
1081TGTCATGGA AATTGTAAAT TGTCCTTTAT AACTGGTATT TATCATACGG CAGCAGTAGA
1141ATTGGCTGCT GCATGTCTAT CTTGTGTTTT GTAAGAAATG ATAATAAAAA ACATGTATAA
1201TTTCAAAAA AA

编号: C030

长度: 403 bp

碱基对组成:

142 A 87 C 69 G 105 T

1 TGAAGGAACT GTAAGACGTT GGTATAAAAG GTGAGCGTGG ATGTACCTGA GCCACATTAG
61 ACAAACACCT TTGGTTGAAG AAAGACGTGC TCTCACCTTC AAAATGTACC ATCATAACAA
121 CAATAATCAG CACTCCTTTG TGAATTGCCA GTGCAGGCGA ACTTCTTCCT CCATCAACTG
181 TTCAAGCTGT TCCCGTGAAA CTTTCAACTC AGTAAAGGCT ATCCAGTACT TCAACAAAAC
241 TAGCAGAAAT AATACTGCAC ATCATTTCAA GATGCCGGCT TCAAAGGATC GCAACTATTC
301 TTCTTTTCGAG TATGCTGAAA CGGCAGTTGC TGCTCACAAT ATATCTCAGT GGTGATTTCT
361 ACGACTAAAT AAAATATAAC AAACCTTTAA AAAAAAAAA AAA

编号: C031

长度: 548 bp

碱基对组成:

189 A 75 C 132 G 152 T

1 GTTCAAATTA TTGTACAATG AGAGATGAGG GTGGTTTCAG GCCCCGTTTG ATCATGTCTG
61 CCTACGGGCC AACATCTTAC CCTATCATCT TCAATACTTT ATATGATCAA TTCAATGTGC
121 AATATTATCC ATGTGTTTCT GGAGTTGTTT TATCTTTTAT TGGCGATGAT CAGTTAGCAC
181 CAGAACCAGA ATCATTAGTG GACATTGTTG TACGTTCTAT AAAAAATCCG TCTATTAGAA
241 TTTTCTCTGG TGATGGTGAA ACAGTATACC AGGATGGACG TAGGGTCGAT GTTGGTGGTG
301 AGGGAAGAA TCAGAAGTTT AACCGAGAAG AGCGCACCAT TTTAAATGTA TTGAGGATAA
361 TTAAAGCATA TAATGAAGAA CGAACTAAAG AAGATGAAGA TGAAGAGGAA GAAGAGGAGG
421 AAGAAGAGGA ACAACAAACA GCAGCAACAG TGACAGTAGA AAGTGATTGG GATCTCTCAC
481 TAGAGAGGGG GGAGAATTGG GTGTAGTAAC TTATTTGAGC AATAAAAATA CAACTGAATT
541 TTAATAAA

编号: C032

长度: 812 bp

碱基对组成:

242 A 187 C 172 G 211 T

1 CTCTGTGGTT TCACGAGGTT GTCATCACCA AAGGTAACCT TTTTTTTTGT CCTCGCCGAC
61 AAAACGACAT CTTAATAACC AAGCAACGTT CGATAAAGAA AAAAACTCGT CATGGATCTT
121 TCTTTTCACTC TTTTCGGTCGT GTCGGCCATC CTCGCCATCA CTGCTGTGAT TGCTGTATTT
181 ATTGTGATTT TTAGGTATCA CAACACTGTG ACCAAGACCA TCGAAACCCA CACAGACAAT
241 ATCGAGACAA ACATGGATGA AAACCTCCGC ATTCCTGTGA CTGCTGAGGT TGGATCAGGC
301 TACTTCAAGA TGACTGATGT GTCCCTTTGAC AGCGACACCT TGGGCAAAAT CAAGATCCCG
361 AATGGAAAGT CTGATGCACA GATGAAGGAA GAAGATGCGG ATCTTGTCAT CACTCCCGTG
421 GAGGGCCGAG CACTCGAAGT GACTGTGGGG CAGAATCTCA CCTTTGAGGG AACATTCAAG
481 GTGTGGAACA ACACATCAAG AAAGATCAAC ATCACTGGTA TGCAGATGGT GCCAAAGATT
541 AACCACATCA AGGCCTTTGT CGGTAGCTCC AACACCTCCT CCTTCACCCC CGTCTCTATT
601 GATGAGGATG AAGTTGGCAG CTTTGTGTGT GGTACCACCT TTGGCGCACC AATTGCAGCT
661 ACCGCCGGTG GAAATCTTTT CGACATGTAG GTGCACGTCA CCTACTCTGG CACTGAGACC
721 GAGTAAATAA ATCGTGCTTT TTTATATAGA TAGGGAATTT TAATATTACA ACAATAAGAA
781 AATAAAACAA TTGAGGAAAT TTAATAAAAA AA

52

碱基对组成: C033 长度: 625 bp
 252 A 100 C 139 G 134 T

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1  AAGTAAAAAT GGAACAAGAA GAACTGGTAG AGGACTCGTC AAGTAACAAG CGCCCCAGAA
61 TTAAGGAAGA GAAGGAGGAA GAACACAAAG AAACACATCA CCTCTCCCTC CCATGTAAAG
121 AAGAAGAAGA CGATGGTGAA GAAGAGGAAT ATGAGGAAGA GGAGGATGAG GAAGAATATG
181 AAGACAGAGT GGACGACGAC ACTGCAGAGA AAATGGAAAA TCTTTTGGTG CAACTGGACA
241 ATACTACCAA AAACATCAAA CTGAAAAACC CCCTAAGGGA ACATGACATG GCAGTTTCAC
301 ACTATGAGCA TGAATTTGAG GTACAAAATA CTGTCAATTT TAGTTTTGGA GTACTATCTG
361 ATATTGGGTT CCTGATCAAC CGTGAAGCCG TTTCTAGGTG GGGTAATACA CCCCACCAA
421 AAGAGTTTGG CGACATGGAG ATTGGATCTC TTACAGTTAA CCAGATGCTC CACAAGTGTG
481 ATAATTTTGT ACAGGCTGTA GTACAGAAAG TGAAGGAAGA TATAACCCCT TCTATTGAAG
541 TTACAATAGA TAGTTTGATT GATGATCCTT GTTGGTAAAA AACAAATAAA ATATACCTAA
601 AAATTAAAAA AAAAAAAAAA AAAAA
  
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编号: C034 长度: 476 bp
 147 A 94 C 107 G 128 T

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1  ATGATAAGAG TTTCTGGTCC TCTTTTCGACA AGTCTGTGAA GCCTTATTGT GAGAGCAAGA
61 AGAGTGCTCT TATTAATGCT CTATGTGAAG ATAATGTGAC TGCCAAGGTA TACGCTACTG
121 TCCATACACT GGCTATTCCA TTCTGTGAAT CTATGCCCCAT TAACCACATT AATAACACTA
181 CTCCTTATGG AAGCTACAAG ACCTTCAGAA TTAGTTTGCC AGGGAACTTT TCTGGGCAAC
241 ATAACGACAT CAACAACAAT TGGAGATCTG ACATGTACAC TAAGATGGTT GAAAATCTTC
301 TAAAGAGGGA AGTTGTTGAG AACAAGACAC ACAGCCGCAG ATACGTTTCG AACCTTATTG
361 TTGACGGAGG CGTGGGAGAA AATAGTGGCA ACTACTTGAA GGTGCACGAG AATAATGAGG
421 ATATTTTTTG AAGCATTGAA GCGAATTCAA TGTCTGCCAA GACTGCTGCT GCCGCC
  
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编号: C035 长度: 962 bp
 360 A 156 C 187 G 259 T

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1  TTCGTCTTCT GAAACTCCTA AGACTTCCAC CGATACTGGG GAAGAAAGGA TTAAAGACAT
61 TGTAATGCT CTAGATAATA ATGGCGAGTG GTTGTCTTCC TATATTGATC CGATTATCAA
121 TAATCACATC TCACGAAAAA CCGCAGAAAC TGTCCAAAAA ATCAACCAAG AAGTTGATGA
181 ACGGTACGAT AGAAAAATAG CCGACAAAAT CAACGAAATA AAATCATCCA TCTTTACAAG
241 TGCTCAGACT ATGTATGACC AATATGCAAT AGACACATTT CAAGAAGGAA AAGGAGCCAA
301 CGGGACTGGA CCAGTCATGG GGCCAGTGAA CACGGTTATC GATACAACCTT TAAATAAAAT
361 GAGGGGAAAT ATGCTCGAAT ACGCTGAAGA TATGTGGGAC GGAGATGACT GGAACGATT
421 TTCCAGTTCT ATGACAACGC TTGAATTTGA TCTAAGTTAC TCTGATTTAA CTATGATCGC
481 TGGTTCTGAC GGGTATTTTG CATTCCCTTT CCGTGGAACA AAAAAGATAA AGATGGACGG
541 TTCAAGAAAG AAAGAAGACC CAATTAATTG TATCATTTC AATACATATC CAACAAAGT
601 AGGGGATGAG TGGGAAGAGG GTAAAGAACG TGAAGTGAAT TTAAACCTAG AAAGAGTAGA
661 CGACTATGAA AGAGATATCC ATGTTTCAAT TTTGTGCATG TTACATGCAC AACTTGATAA
721 TTTCGAACAA GCATTAGGAG AAAATGCAAA CTCTTTTAT TTTAAAAAGG GGCAAGAGT
781 CATGTTCTTA CCCAAGAAAT CTAACTGTT CAATAGACCT ACTGTAGAAG ATTCTGATAT
841 GTTTTCTATA ATATCCAC CTGCATCTGA CCAAGATTTT GCAGATGATA TTTATTATCG
901 AATAATTGTA ACATGTTTCAT AATAAAATTT GTTGAAATAA AATACAGTAA TACAAAAAAA
961 AA
  
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编号: C036 长度: 335 bp
 127 A 70 C 68 G 70 T

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1  CGAGAACAAA AGATTGTTGT CTAGGAACAA AGAAACATTA AAAATGGTTG CCCGAAGCTC
61 CAAGACCAAA TCCCGCCGTG GAAGCAAGAA GAGGTCCACC ACTGCTGGAC GCATCTCCAA
121 GCGGAGGAGC CCATCAATGA AGAAGCGTGC AGAAAGAAG AGCTCCACTG TCCGTCGCCC
181 TTCCTCAAAG AGCGGAAAGA AGTCTGGAGC CCGCAAGTCA AGGCGTTAAT TCTTCCCTGT
241 ACAACAATA TGTTATTTAA TTGATTTTTT TTCTTCTGAA TAATTGGAAA TAATAAACA
301 TCCATTGAAA CTAAAAAAA AAAAAAAAAA AAAAA
  
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编号: C037 长度: 225 bp
 78 A 52 C 43 G 52 T

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1  GGAGCTCTGT CATTTCTGGT GCAATCTGAC ATTGGCTCGA CCCAGCGGTC CACCCTCCAA
61 ACTTGACATC AGACCGACCC AGCGGTCCAC CCTCTAACT CGAGCGACCC AGAAAAATTT
121 TTGAAAAGTT TTTGAGATGG AGGAAGAGTA AAATTCCCTA GTGTAAACAG TACCAAGAAG
  
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181 ACCAATAAAT TTAGTGGTAA TAAACTACA CATATGATTA AAAAA

该病毒能感染目前养殖的所有对虾，引起对虾急性死亡，死亡率达90—100%，因此此序列测定是了解该病毒感染机理、复制增殖机制及采取防治对策的必要前提。

以下对本发明的具体思路及方法做详细描述：

一、 构建WSBV基因组DNA文库：

（一） “鸟枪法” 文库的建立

1. DNA片段超声打碎：

取5微克纯化的WSBV DNA溶于200微升重蒸水中，用超声波仪(Sonics & Materials Inc.)打碎。超声波仪的设置：振幅：20；超声时间为5秒。

2. 末端修复补平：

取上述超声后的DNA溶液(200微升)，加10单位大豆核酸酶(GIBCO BRL)，置30℃水浴中反应15分钟。加入等容积酚/氯仿(1:1)，振荡1分钟，在4℃下，以14,000rpm离心10分钟。取上层溶液，加入1/10容积1摩尔/升氯化钠及500微升95%乙醇，在-20℃环境中放置1小时后，于4℃下，以14,000rpm离心30分钟。弃上清，沉淀物在室温下干燥5分钟后加入25微升pH 8.0的TE缓冲液溶解。测定该溶液中DNA的浓度。

3. 回收DNA：

在1xTAE缓冲液中配制0.9% 低熔点琼脂糖胶(LMP, Seaplaque GTG)。取15微升上述DNA溶液进行电泳分离，电压为56V，电泳时间40分钟。切下长度为0.8-2kb之间的DNA胶带，用GENECLEAN试剂盒(BIO 101 Inc.)回收DNA，测定该DNA的浓度。

4. 连接：

取3微升上述DNA溶液(约100纳克)加入1微升连接缓冲液(GIBCO BRL)，0.5微升pUC18/SmaII/BAP(50纳克/微升，Pharmacia BioTech)以及0.5微升T4 DNA连接酶(1单位/微升，GIBCO BRL)，总容量为5微升。置14℃水浴中，反应过夜(超过16小时)。

5. 转化：

在冰浴中将1微升上述连接后的DNA溶液加入100微升DH5α(GIBCO BRL)化学感受态细胞，于42℃水浴中加热45秒后立即置于冰浴中。加入600微升SOC培养液(GIBCO BRL)，于摇床中以225rpm的摇速，培养1小时，分别取100微升涂于六块琼脂平板上，37℃培养过夜。有WSBV DNA 插入的克隆显白斑，无插入的克隆则为蓝斑。

（二） Sau3A1部分酶解法构建WSBV 基因组文库

1. WSBV毒基因组DNA不完全酶切：

- 1) 缓慢吸取50微升（浓度为0.1微克/微升）WSBV基因组DNA至1.5毫升容量的离心管中；
- 2) 加入10xSau3A1缓冲液50微升；
- 3) 再加无菌重蒸水400微升，轻轻混匀；
- 4) 最后加入1微升Sau3A1（浓度为10单位/微升）；
- 5) 混匀后在37℃水浴中放置10分钟，加入500微升异丙醇并混匀，在室温下放置30分钟；
- 6) 用台式离心机以14,000rpm离心5分钟，去上清液；
- 7) 用乙醇清洗两次沉淀，吸干，加入20微升无菌重蒸水溶解病毒DNA片断。

2. WSBV基因组DNA片断电泳回收并纯化：

- 1) 配制0.5%琼脂糖凝胶（1xTAE溶解），将胶泡入含0.5微克/毫升EB的1xTAE中30分钟后放入电泳槽；
- 2) 在20微升病毒DNA片断样品中加入2微升6x电泳上样缓冲液，混匀，加入胶孔中；
- 3) 在旁侧胶孔内加入10微升（浓度为50纳克/微升）λ核酸标准分子量标准品；
- 4) 电泳缓冲液为1xTAE，电压为2伏特/厘米，在电泳时不时用手提紫外灯(306nm)监视电泳情况；
- 5) 当DNA片断达适当分离程度时，在紫外灯下对照核酸分子量标准，切下5—10kb DNA片断所在的琼脂糖凝胶带，置1.5毫升离心管中；
- 6) 称重，加入3倍胶重量的6M 碘化钾，置55℃水浴5分钟至胶完全溶解；
- 7) 加入5微升玻璃粉浆液，冰浴30分钟，其间摇动数次；
- 8) 以10,000rpm离心10秒种，弃上清，加入400微升洗涤液，充分悬浮玻璃粉；
- 9) 以10,000rpm离心10秒种，弃上清，重复洗涤1次；
- 10) 吸干液体并干燥，加入20微升无菌重蒸水，振荡玻璃粉成浆液；
- 11) 置水浴中5分钟，以14,000rpm离心3分钟；
- 12) 将上清(含纯化的病毒DNA片断)转移至无菌的0.5毫升离心管中，置-20℃备用。

3. 载体的酶切反应、去磷酸化和纯化：

- 1) 在0.5毫升离心管中加入2微克载体（pBluescript），2微升10xBamH1缓冲液，无菌重蒸水加至19微升，然后加入1微升的BamH1（浓度为10单位/微升），在37℃水浴中反应2小时；
- 2) 加入20微升异丙醇混匀，在室温放置30分钟，用台式离心机以14,000rpm离心5分钟，去上清液；
- 3) 用乙醇两次清洗沉淀物，吸干并干燥后加入17微升无菌重蒸水溶解沉淀物；
- 4) 加入2微升的10xCIP缓冲液，1微升CIP（1单位/微升），置37℃水浴中反应30分钟；
- 5) 加入2微升3M醋酸钠（pH5.2），20微升异丙醇，混匀，于室温下放置30分钟；
- 6) 用台式离心机以14,000rpm离心5分钟，去上清液，以70%乙醇两次清洗沉淀，吸

干并干燥后加入20微升无菌重蒸水溶解沉淀物;

- 7) 与方法2步骤一样, 通过电泳和玻璃粉纯化得到去磷酸化的BamH1酶切载体, 最后用无菌重蒸水溶解 (浓度为25纳克/微升)。

4. WSBV基因组DNA片断连接和转化反应:

- 1) 在0.5毫升离心管中分别加入2微升去磷酸化BamH1酶切载体, 5微升Sau3A1不完全酶切纯化的WSBV基因组DNA片断, 2微升T4 DNA连接酶缓冲液及1微升 T4 DNA连接酶 (1单位/微升), 混匀, 在16℃进行连接反应20小时;
- 2) 迅速融化200微升*E. coli* XL-Blue化学感受态细胞, 加入上述连接反应产物, 在室温下放置30分钟;
- 3) 加入800微升LB液体培养基, 于37℃摇床上低速摇动1小时;
- 4) 用台式离心机以4,000rpm离心3分钟, 吸取大部分上清液 (留下约200微升), 重悬沉淀菌;
- 5) 涂布含Amp 100微克/毫升的LB培养基板 (预先涂布50微升/ 50mM IPTG, 50微升 X-gal), 于37℃培养15小时后出现蓝、白菌落 (蓝色表示无DNA片断插入, 白色表示有DNA片断插入)。

5. 质粒提取:

- 1) 挑取白色单菌落至5毫升LB液体培养基 (含100微克/毫升 Amp), 在37℃(200转/分钟) 振荡培养过夜;
- 2) 将菌液倒入1.5毫升离心管, 以10,000rpm离心30秒, 去上清液, 重复离心2次后留下菌体;
- 3) 加入150微升溶液I, 充分悬浮菌体;
- 4) 加入300微升溶液II, 轻轻翻转待菌液裂解至清亮;
- 5) 加入225微升溶液III, 温和振荡, 以14,000rpm离心3分钟;
- 6) 用牙签挑去沉淀, 加入500微升异丙醇, 以14,000rpm离心3分钟;
- 7) 去上清液, 吸干;
- 8) 加入50微升TE溶解沉淀物;
- 9) 加入50微升8M氯化锂, 以14,000rpm离心3分钟;
- 10) 转移上清液至新的1.5毫升离心管, 加入100微升异丙醇, 以14,000rpm离心3分钟, 用70%乙醇清洗两次, 吸干;
- 11) 沉淀物用40微升TE溶解, 加入1微升 RNaseA (浓度为10毫克/毫升), 置37℃反应60分钟;
- 12) 加入200微升硅藻土, 混匀, 在4℃下放置1小时;
- 13) 把DNA/硅藻土混合液转移到微型柱中, 放到套管中 (1.5毫升去盖离心管);
- 14) 以5,000rpm离心, 去溶液;
- 15) 加入200微升洗液, 以5,000rpm离心, 重复2次;

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- 16) 加入200微升50%乙醇，离心速度从5,000rpm逐渐增大至10,000rpm，甩干；
- 17) 加入适量预热至70℃的重蒸水，离心速度从2,000rpm逐渐增大至15,000rpm，离心至新的1.5毫升离心管中收集样品，-20℃冰箱保存备用。

二. 大规模DNA测序

I. PCR反应:

1. 配制PCR反应液(25微升/反应孔)，内容如下:

2.5 微升10倍 GeneAmp II 缓冲液(PE Biosystems)，0.2 微升dNTPs(25毫摩尔, Amersham)，0.125 微升M13正向PCR引物(40微摩尔)，0.125 微升M13反向PCR引物(40微摩尔)，1.5 微升氯化镁(25毫摩尔, PE Biosystems)，0.5 微升Taq Gold (5单位/微升, PE Biosystems)和20.05 微升重蒸水，总容量为25 微升。

挑取单个白斑克隆置于96孔PCR反应板中(每个反应孔中均预先加入25微升上述PCR反应液)，混匀。分别取1微升制成甘油保存液，保存于-85℃超低温冰箱中备用。

2. PE 9700型PCR仪中进行PCR反应的条件:

95℃ 12分钟1个循环；95℃15秒，58℃20秒及72℃2分钟，重复30个循环；然后在4℃下保持到停机取出样品。

3. 琼脂糖胶电泳鉴定:

取5微升PCR产物加入2微升3倍溴酚蓝进行电泳分离，电压200伏特，电泳时间30分钟，电泳毕拍照存档。

4. 纯化PCR产物:

取8微升PCR产物，加入0.30微升虾碱性磷酸酶(1单位/微升)，0.15微升Exonuclease I (核酸外切酶I, 10单位/微升)和1.55微升重蒸水(总容量为10 微升)，放置在37℃下反应 5分钟，然后于℃反应 15分钟。

II. 测序反应:

1. 预配测序反应液如下:

1微升“BigDye Terminator” 混合液 (PE Biosystems试剂盒)，1微升M13 测序引物 (3.2微摩尔)，2微升纯化的PCR产物和1微升重蒸水，总容量为5微升。

2. PE 9700型PCR仪中进行反应的条件:

96℃ 30秒、50℃15秒及60℃ 4分钟，重复25个循环；然后在4℃下保持到停机取出样品。

3. 纯化:

在各反应孔中分别加入25微升乙醇/醋酸钠沉淀液，在4℃下以4,000rpm离心30分钟，弃上清。各孔加入50微升70%乙醇，在4℃下以4,000rpm离心10分钟。弃上清后，在室温下干燥5分钟。

III. 测序:

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1. 配胶:

以每块胶50毫升的量, 预先配制5.25%聚丙烯酰胺凝胶, 灌入377测序仪配套玻璃板中, 在室温下放置2小时后使用。

2. 装配胶板和检查:

用去离子水仔细清洗玻璃板, 在室温下晾干后, 插入配套的鲨齿梳, 装配于377型测序仪上, 进行扫描检查, 4色扫描条带必须水平, 如有尖锐的峰形, 须重新清洗玻璃板。

3. 预电泳:

在377型测序仪上装配好上、下电泳槽, 灌入约1.5升1xTBE缓冲液, 进行半小时预电泳。

5. 样品准备:

于上述纯化后的测序反应样品中, 各加入5微升样品缓冲液(PE Biosystems), 在72℃下加热2分钟后立即置于冰浴中, 待上样。

6. 电泳:

将约1.5微升的样品加入梳齿孔中, 先上样于奇数梳齿孔道, 电泳3分钟后, 再上样于偶数梳齿孔道。电泳7小时。仪器自动收集数据。

7. 分析:

用PE公司的分析软件, 分析所收集之数据。将数据传输到UNIX系统中储存。

三. 序列分析:

I. 序列拼接:

将所得的序列(共5,795个)用UNIX系统中的InnerPeace软件拼接(该软件是在华盛顿大学开发的Phred, Phrap 及Consed的基础上设计而成)。

II. 序列的校正及最后完成:

1. 对模糊序列, 找出相对应的克隆, 重新对其PCR产物进行测序。
2. 对重复序列, 有可能导致拼接错误, 则设计引物, 在原来PCR产物或重新制备的质粒DNA上进行“步行法”测序, 即一步一步地设计引物, 向前推进测序。
3. 对序列间隙, 即有一克隆连接两个片段, 则直接将该克隆序列测通, 即可填补该间隙。
4. 对物理间隙, 通过在片段间设计引物进行PCR或长片段PCR扩增, 来确定及连接该间隙, 再用引物“步行法”将PCR产物测通。
5. 对无法用PCR方法来填补的物理间隙, 则直接在WSBV基因组DNA上进行“步行法”测序。

四、WSBV cDNA文库的构建

I. 方法

1. Poly(A)-mRNA 的提纯:

- 1) 取出试剂盒中GTC抽提缓冲液、生物素标记的Oligo(dT)探针、不含核苷酸酶的重蒸水和0.5xSSC, 恢复至室温; 将稀释缓冲液预热至70℃;
- 2) 取20毫升容量玻璃管, 加入4毫升抽提缓冲液和104微升 β -巯基乙醇;
- 3) 尽快取病虾之消化腺, 加入该玻璃管中制成匀浆;
- 4) 以8,000rpm离心10分钟, 取上清;
- 5) 分别将8毫升稀释缓冲液(70℃预热)和164微升 β -巯基乙醇加入匀浆管中, 翻转几次混匀;
- 6) 加入5微升探针, 混匀后在70℃下孵育5分钟;
- 7) 转移至15毫升无菌试管中, 在室温下以40,000rpm离心10分钟;
- 8) 同时将SA-PMPs悬浮, 取5毫升置于50毫升带盖无菌管中, 放置在磁性平台上, 倒去液体; 加入同体积0.5xSSC, 悬浮, 弃去液体, 重复二次后加入同体积0.5xSSC, 悬浮;
- 9) 离心后取上清, 转入SA-PMPs管中, 翻转混匀;
- 10) 在室温下放置2分钟, 置于磁性平台上至溶液澄清, 弃去液体;
- 11) 加入2毫升0.5xSSC, 轻扣管壁使之悬浮, 转移到2毫升试管中, 放置在磁性平台上, 小心吸去液体, 重复一次, 尽量吸去液体;
- 12) 加入1毫升不含核苷酸酶的重蒸水, 轻扣悬浮, 放置于磁性平台上, 小心吸去SSC液体, 重复, 直至提取物体积到达1微升;
- 13) SA-PMPs以不含核苷酸酶的重蒸水悬浮, 留样;
- 14) 加入0.1倍体积的3M NaAC 和1倍体积的异丙醇, 在-20℃下放置过夜;
- 15) 以40,000rpm离心10分钟, 沉淀物用70%乙醇洗涤, 离心后吸去残液;
- 16) 以不含核苷酸酶的重蒸水悬浮成0.5-1.0微升, 置于-70℃冻存。

2. mRNA逆转录成cDNA:

1). 第一链合成:

- a) 在1.5毫升离心管中加入2微升Not I 接头引物, 随后加入2微升mRNA(2微克/微升)和5微升 DEPC处理水;
- b) 混合均匀, 在70℃孵育10分钟后, 置冰上迅速冷却;
- c) 稍作离心, 加入4微升第一链缓冲液, 2微升 0.1M DTT, 1微升 10mM dNTP 混合液;
- d) 轻轻振荡以使混匀, 稍作离心, 置37℃孵育5分钟以平衡温度;
- e) 加入4微升SuperScript II RT (1微克/微升), 混匀后置37℃孵育1小时;
- f) 转移至冰上以终止反应。

2). 第二链合成:

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- a) 向该管中加入95微升 DEPC处理水、30微升第二链缓冲液、3微升 10mM dNTP 混合液、1微升大肠杆菌DNA连接酶 (10单位/微升)、4微升大肠杆菌DNA多聚酶I (10单位/微升)和1微升大肠杆菌RNase H (2单位/微升) ;
 - b) 轻轻振荡以使混匀, 置16℃2小时;
 - c) 加入2微升T4 DNA多聚酶, 在16℃继续放置5分钟;
 - d) 转移至冰上并加入10微升0.5M EDTA;
 - e) 加入150μl酚: 氯仿: 异戊醇 (25: 24: 1), 剧烈振荡, 在室温下以14,000rpm离心2分钟以分相, 小心取出上相140微升溶液转移至新的1.5毫升离心管中;
 - f) 加入70微升7.5M醋酸铵和0.5毫升无水乙醇 (-20℃预冷), 混匀后立即在室温下以14,000rpm离心20分钟;
 - g) 去上清, 沉淀物用0.5毫升70%的乙醇 (-20℃预冷) 洗涤, 以14,000rpm离心2分钟, 去上清;
 - h) 置37℃干燥10分钟以使残余乙醇挥发。
- 3). 连接Sal I接头:
- a) 向该管内加入25微升 DEPC处理水、10微升T4 DNA连接酶缓冲液、10微升Sal I 接头和5微升T4 DNA连接酶;
 - b) 轻轻混匀, 置16℃16小时;
 - c) 加入50微升酚: 氯仿: 异戊醇 (25: 24: 1), 剧烈振荡, 室温下用14,000g速度离心5分钟以分相, 小心取出上相45微升转移至新的1.5毫升离心管;
 - d) 加入4.5微升3M醋酸钠和90微升无水乙醇 (-20℃预冷), 混匀后立即在室温下, 以14,000g速度离心20分钟;
 - e) 去上清, 沉淀物以0.5毫升70%的乙醇 (-20℃预冷) 洗涤, 用14,000rpm离心2分钟, 去上清;
 - f) 置37℃干燥10分钟以使残余乙醇挥发。
- 4). Not I消化:
- a) 向该管内加入41微升DEPC处理水、5微升缓冲液和4微升Not I;
 - b) 轻轻混匀, 37℃孵育2小时;
 - c) 加入50微升酚: 氯仿: 异戊醇 (25: 24: 1), 剧烈振荡, 室温下用14,000rpm离心5分钟以分相, 小心取出上相45微升转移至新的1.5毫升离心管;
 - d) 加入4.5微升3M醋酸钠和90微升无水乙醇 (-20℃预冷), 混匀后立即在室温下用14,000rpm离心20分钟;
 - e) 去上清, 沉淀物以0.5毫升70%的乙醇 (-20℃预冷) 洗涤, 用14,000rpm离心2分钟, 去上清;
 - f) 置37℃干燥10分钟以使残余乙醇挥发。

5). 大片段分离:

- a) 向该管加入20微升TE缓冲液以溶解cDNA;
- b) 用1%琼脂糖胶电泳分离cDNA, 以分子量标准显示500bp电泳带, 电压为60伏特;
- c) 取1.5毫升离心管称重; 电泳15分钟后割取大于500bp的cDNA条带, 转移置该管, 称重, 计算胶的重量;
- d) 加入3倍体积的6M碘化钾, 55℃水浴加热15分钟, 待胶溶解;
- e) 加入5微升玻璃粉浆液, 混匀, 在4℃下放置1小时, 其间经常振摇;
- f) 在室温下以14,000rpm离心30秒钟, 吸去液体;
- g) 沉淀物用1毫升清洗溶液悬起, 在室温下以14,000rpm离心30秒钟, 吸去液体;
- h) 沉淀物用1毫升80%的乙醇悬起, 在室温下以14,000rpm离心5分钟, 吸去液体, 室温晾干10分钟;
- i) 加入10微升重蒸水, 在55℃下孵育5分钟;
- j) 在室温下以14,000rpm离心2分钟, 吸取液体, 转移置1.5毫升离心管;
- k) 在硅胶管中再加入5微升重蒸水, 在室温下以14,000rpm离心2分钟, 吸取液体, 与上述吸取液合并, 置-20℃保存。

3. cDNA插入pSPORT载体:

- 1) 在1.5毫升离心管中加入5微升cDNA、2微升 pSPORT、Not I-Sal I-Cut (50微克/微升)、4微升 T4 DNA连接酶缓冲液和8微升重蒸水;
- 2) 混匀后加入1微升T4 DNA连接酶, 混匀;
- 3) 于16℃水浴孵育过夜;
- 4) 加入2微升3M醋酸钠和40微升无水乙醇 (-20℃预冷), 混匀后立即在室温下以14,000rpm离心20分钟;
- 5) 去上清, 沉淀物用0.5毫升70%的乙醇 (-20℃预冷) 洗涤, 以14,000rpm离心2分钟, 去上清并重复一次;
- 6) 置37℃干燥10分钟以使残余乙醇挥发, 用5微升重蒸水溶解, 待电转化用。

4. 感受态细胞的制备:

- 1) 在40毫升LB液体培养基上接种DH10α, 37℃培养至OD₆₀₀为0.6-1.0;
- 2) 置冰上40分钟;
- 3) 转移至灭菌的45毫升离心管中, 以4,000rpm离心10分钟, 去上清;
- 4) 用40毫升灭菌重蒸水 (4℃预冷) 悬浮细胞, 以4,000rpm离心10分钟, 去上清;
- 5) 用20毫升灭菌重蒸水 (4℃预冷) 悬浮细胞, 以4,000rpm离心10分钟, 去上清;
- 6) 用1毫升灭菌重蒸水 (4℃预冷) 悬浮细胞, 以4,000rpm离心10分钟, 去上清;
- 7) 以200微升灭菌的10%甘油 (4℃预冷) 悬浮细胞, 按每管100微升的量分装, 置冰上待用。

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5. 电转化方法:

- 1) 在100微升感受态细胞中, 加入2微升连接产物, 混匀, 冰浴1分钟;
- 2) 转移到经预冷的0.2厘米电穿孔容器;
- 3) 用BTX600C电转化仪电击: 脉冲时间约5-6毫秒, 场强为12,500伏特/厘米, 设定参数为: 2,500伏特, R5 (129欧姆);
- 4) 加入1毫升LB, 转移到1.5毫升离心管中, 在37℃下轻摇40分钟以使细胞复苏;
- 5) 取200微升涂布LB琼脂糖平板 (含Amp), 在37℃下培养过夜。

6. 地高辛标记DNA探针:

- 1) 取3微克纯化好的DNA置于1.5毫升离心管中, 置100℃水浴10分钟变性DNA;
- 2) 随即加入4微升六核苷酸混合液, 4微升dNTP混合液, 38微升重蒸水和2微升Klenow酶 (2单位/微升);
- 3) 混匀后置于37℃水浴中孵育20小时, 其间补加1微升Klenow酶, 并稍作离心;
- 4) 加入2微升EDTA (0.2M, pH8.0) 以终止反应;
- 5) 加入2.5微升4M氯化锂和75微升的乙醇 (-20℃预冷), 于-20℃放置2小时;
- 6) 12,000g离心10分钟, 去上清, 沉淀用70% 乙醇洗涤两次, 吸去液体, 室温晾干;
- 7) 以50微升TE缓冲液溶解探针, 置于-20℃保存。

7. 原位杂交筛选阳性克隆:

1). 菌落裂解及DNA变性与固定:

- a) 将保种甘油菌稀释成合适浓度后涂布在LB (含Amp) 平板上, 在37℃下培养过夜;
- b) 当菌落大小在1-2毫米时, 取出平板, 于4℃放置1小时;
- c) 取灭菌的尼龙膜, 小心覆盖于平板上, 放置5分钟后将尼龙膜揭下, 室温晾干;
- d) 取三个培养皿, 各放入一张滤纸, 然后分别加入杂交变性液、中和液、洗涤液, 使滤纸浸透;
- e) 将尼龙膜菌落面朝上放于浸透变性液的滤纸上, 变性5分钟;
- f) 将尼龙膜转到浸透中和液的滤纸上, 中和5分钟;
- g) 将尼龙膜转到浸透洗涤液的滤纸上, 洗涤5分钟;
- h) 将尼龙膜取出后放于滤纸上, 室温晾干;
- i) 将尼龙膜放于紫外交联仪上, 用254纳米波长照射3分钟以固定DNA。

2). 与地高辛标记的探针杂交:

- a) 将尼龙膜转入杂交袋, 加入20毫升经65℃预热的预杂交液, 密封后在65℃水浴中孵育1小时;
- b) 取100纳克地高辛标记的探针, 在100℃水浴中煮2分钟后加入3毫升经65℃预热的预杂交液配成杂交液;
- c) 倒出杂交袋中的预杂交液, 加入杂交液, 密封后在65℃水浴中孵育至少6小时,

其间经常摇动以使杂交液能均匀覆盖尼龙膜;

- d) 取出尼龙膜, 以50毫升的2xSSC和0.1%SDS洗液洗涤5分钟, 重复一次;
- e) 用50毫升的0.1倍SSC和0.1%SDS洗液在68℃下洗涤15分钟, 重复一次。

4). 显色:

- a) 用20毫升杂交检测缓冲液1洗涤尼龙膜1分钟;
- b) 换用100毫升杂交检测缓冲液2孵育尼龙膜30分钟;
- c) 加入4微升抗地高辛-AP复合物于20毫升杂交检测缓冲液2中孵育尼龙膜30分钟;
- d) 用100毫升的杂交检测缓冲液1洗涤尼龙膜15分钟, 重复一次;
- e) 用20毫升的杂交检测缓冲液3平衡尼龙膜2分钟;
- f) 在10毫升的杂交检测缓冲液3中加入80微升显色液, 在避光条件下显色尼龙膜;
- g) 待显色到适当深度时, 加入100毫升的TE缓冲液洗涤尼龙膜10分钟, 重复一次, 取出稍晾干后, 观察结果或照相; 尼龙膜可装入透明塑料袋置于-20℃保存。

8. 质粒抽提方法:

- 1) 挑取单菌落至5毫升LB液体培养基(Amp 100微克/毫升), 在37℃下振荡过夜;
- 2) 将菌液倒至1.5毫升离心管中, 以14,000rpm离心30秒钟, 重复一次, 留下菌体;
- 3) 加入200微升溶液 I, 充分悬浮;
- 4) 加入400微升溶液 II, 轻轻翻转, 冰浴5分钟使细菌裂解至清亮;
- 5) 加入300微升溶液 III, 温和振荡, 冰浴5分钟后, 以14,000rpm离心5分钟;
- 6) 转移上清至新的1.5毫升离心管中, 加入等体积预冷的异丙醇;
- 7) 以14,000rpm离心3分钟, 去上清, 沉淀用70%乙醇洗涤两次, 吸去液体, 室温晾干;
- 8) 沉淀物用200微升TE溶解, 加入等体积 8M氯化锂, 以14,000rpm离心3分钟;
- 9) 转移上清至新的1.5毫升离心管中, 加入等体积预冷的异丙醇;
- 10) 以14,000rpm离心3分钟, 去上清, 沉淀用70%乙醇洗涤两次, 吸去液体, 室温晾干;
- 11) 沉淀物以100微升TE溶解, 加入1微升RNase A, 在37℃水浴中反应30分钟;
- 12) 加入10微升3M醋酸钠和200微升乙醇(-20℃预冷);
- 13) 以14,000rpm离心3分钟, 去上清, 沉淀用70%乙醇洗涤两次, 吸去液体, 室温晾干;
- 14) 以40微升TE溶解质粒, 加入200微升硅藻土, 混匀, 在4℃下放置1小时;
- 15) 把DNA/硅藻土转到魔力柱中, 以5,000rpm离心, 使其入柱;
- 16) 加入200微升洗液, 以5,000rpm离心, 重复3次;
- 17) 加入70%乙醇, 离心速度从5,000rpm逐渐增大至15,000rpm, 甩干;
- 18) 加入适量经70℃预热的重蒸水, 离心速度从2,000rpm逐渐增大至15,000rpm, 离心液由新的离心管收集;
- 19) 取1微升质粒稀释至100微升, 测定OD₂₆₀及OD₂₈₀, 其余置-20℃保存。

附录:

I. 材料

1. 工具酶:

Sau3A1为Biolab产品; BamH1为GIBCO BRL产品; T4 DNA连接酶为GIBCO BRL产品; 碱性磷酸酶 (CIP) 为Boehringer Mannheim产品; RNase A为Sigma产品。

2. 商品试剂盒:

- 2) 地高辛标记杂交试剂盒 (Dig labeling kit) 为Boehringer Mannheim产品;
- 3) Poly(A)-mRNA抽提试剂盒 (PolyATtract System 1000) 为Promega产品;
- 4) cDNA合成及克隆试剂盒 (SUPERScript™ Plasmid System for cDNA Synthesis and Plasmid Cloning) 为GIBCO BRL公司产品;

3. 载体和菌株: pBluescript载体和XL-Blue均为Stratagene产品。

4. 试剂:

dNTP为Boehringer Mannheim产品;

Blocking Reagent为Boehringer Mannheim产品;

琼脂糖 (Agarose) 为Sigma产品;

三羟甲基氨基甲烷 (Tris) 为Sigma产品;

β -巯基乙醇为Sigma产品;

异丙基硫代- β -D-半乳糖苷 (IPTG) 为Sigma产品;

5-溴-4-氯-3-吡啶- β -D-半乳糖苷 (X-gal) 为Sigma产品;

核酸分子量标准为MBI产品;

蛋白胨为Oxoid产品;

酵母浸出膏为Oxoid产品;

5. 引物

M13正向PCR引物: 21mer 5'-CGCTATTACGCCAGCTGGCGA-3'

M13反向PCR引物: 20mer 5'-ATGCAGCTGGCACGACAGGT-3'

M13正向测序引物: 18mer 5'-TATAAAACGACGGCCAGT-3'

M13反向测序引物: 18mer 5'-CAGGAAACAGCTATGACC-3'

II. 常用溶液、培养基的配制:

1. LB培养液:

氯化钠 1.0%

酵母浸出膏 0.5%

蛋白胨 1.0%

琼脂 1.5%

2. LB培养液:

氯化钠 1.0%

酵母浸出膏 0.5%

蛋白胨 1.0%

204

3. 乙醇/醋酸钠沉淀液:

2.5微升 3M 醋酸钠

37.5微升 95%乙醇

4. 5.25%聚丙烯酰胺凝胶:

取30毫升GENE-PAGE PLUS 6%及50毫升GENE-PAGE PLUS 4.8%，混匀后，抽气5分钟。取50毫升上述5.25%聚丙烯酰胺凝胶，加入250微升新鲜配制的10% 过硫酸铵及28微升TEMED，混匀后灌胶。

6. TE缓冲液, pH8.0:

Tris-盐酸 (pH8.0) 10 mM

EDTA (pH8.0) 1 mM

7. TAE缓冲液(1x):

Tris-醋酸 40 mM

EDTA 1 mM

7. TBE缓冲液(1x):

Tris-硼酸 90 mM

EDTA 2 mM

8. 琼脂糖凝胶电泳上样缓冲液 (6x)

溴酚蓝 0.25%

蔗糖 40%

9. 溶液 I

葡萄糖 50mM

Tris-盐酸 (pH8.0) 25mM

EDTA (pH8.0) 10mM

10. 溶液II

氢氧化钠 0.2M

SDS 1%

11. 溶液III

醋酸钾 3M

醋酸 11.5%

12. 杂交变性液

氢氧化钠 0.5M

氯化钠 1.5 M

13. 杂交中和液

氯化钠 1.5 M

Tris-盐酸 (pH7.4) 0.5 M

14. 20xSSC贮液 (pH7.0)

氯化钠 17.53%

205

柠檬酸钠 8.82%

15. 2xSSC杂交洗涤液

用20xSSC稀释10倍

16. 5xSSC杂交液: 将以下化学物品配在用20xSSC稀释4倍后的缓冲液中

Blocking Reagent	1% (w/v)
N-lauroylsarcosine Na-Salt	0.1% (w/v)
SDS	0.02% (w/v)

17. 杂交检测缓冲液1:

Tris-盐酸	100mM pH7.5
氯化钠	150mM

18. 杂交检测缓冲液2:

1% Blocking Reagent 溶解于杂交检测缓冲液1

19. 杂交检测缓冲液3:

Tris-盐酸	100mM/pH9.5
氯化钠	100mM
氯化镁	50mM

20. 杂交检测缓冲液4:

Tris-盐酸	10mM/pH8.0
EDTA	1mM

21. 6M碘化钾溶液 (100ml)

碘化钾	90.8g
亚硫酸钠	2g

22. 洗脱液

乙醇	50ml
Tris-盐酸(20mM/pH7.4)/EDTA(1mM)/ 氯化钠(100mM)	50ml

23. 醋酸钠 (3M pH5.2)

醋酸钠	40.81%
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用冰醋酸调节至pH5.2

省略用词一览表:

省略词	英文名称	中文名称
DNA	deoxyribonucleic acid	脱氧核糖核酸
bp	base pair	碱基对
cDNA	complementary DNA	互补脱氧核糖核酸
EST	expressed sequence tag	表达序列标记
kb	kilo base pairs	千碱基对
UNIX	a multiuser, multitasking computer operating system	多用户分时操作系统
rpm	rotor per minute	每分钟转数
Inc.	incorporation	公司
PCR	polymerase chain reaction	聚合酶链反应
M	mol/l	摩尔/升
mM	mmol/l	毫摩尔/升
pH	hydrogen ion exponent	氢离子指数
RNase A	Ribonuclease A	核糖核酸酶A
E.coli	Escherichia coli	大肠杆菌
Amp	ampicillin	氨苄青霉素
w/v	weight/volume	重量/体积
Poly(A)	poly adenylic acid	聚腺苷酸
mRNA	messenger ribonucleic acid	信使核糖核酸
Oligo(dT)	Oligo-deoxythymidine	寡聚脱氧胸苷
OD	optical density	光密度
dNTPs	dATP, dTTP, dGTP, dCTP	四种脱氧核苷酸混合液
Tris	Tris(Hydroxymethyl) Methylglycine	三(羟甲基)氨基甲烷
EDTA	Ethylenediamine tetraacetic acid	乙二胺四乙酸
DEPC	Diethypyrocarbonate	焦碳酸二乙酯
DTT	1, 4-Dithiothreitol	1, 4-二硫代苏糖醇
SDS	Sodium Dedecyl Sulfate	十二烷基硫酸钠
TEMED	N, N, N', N'-tetramethylethyl-enedi amine	N, N, N', N'-四甲基乙二胺
A		脱氧腺嘌呤核苷酸
C		脱氧胞嘧啶核苷酸
G		脱氧鸟嘌呤核苷酸
T		脱氧胸腺嘧啶核苷酸